



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

### 4.2.1 SYLLABUS OF EACH TRAINING COURSE

COURSE TITLE	CAR 147 Basic
COURSE REFERENCE	CAR 66
CATEGORY	B1.1
TOTAL DURATION OF THEORETICAL TRAINING	1440 Hrs
TOTAL DURATION OF IN HOUSE PRACTICAL TRAINING	660 Hrs
TOTAL DURATION OF AMO/ACTUAL MAINTENANCE WORKING ENVIRONMENT TRAINING	300 Hrs
TOATL TRAINING	2400 Hrs

SEM	MODU LE	SUBJECT	THEOR Y (Hrs)	PRACTIC AL (Hrs)	THEORY PORTION	PRACTICAL PORTION
1 <sup>ST</sup> SEMESTER	3	ELECTRICAL FUNDAMENTALS	80	70	3.1-3.18	3-01- 3-46
	7A	MAINTENANCE PRACTICE -PART A	80	70	7.1-7.7 &7.15	7A-01-7A-68
	8	BASIC AERODYNAMICS	60	00	8.1—8.4	00
	10	AVIATION LEGISLATION- PART A	90	00	10.1,10.2,10.4 ,10.7	00
		TOTAL	310	140		
		THEORY + PRACTICAL	450			
2 <sup>ND</sup> SEMESTER	4	ELECTRONIC FUNDAMENTALS	40	40	4.1- 4.3	4-01-4.20
	6	MATERIAL & HARDWARE -Part A	40	00	6.1-6.4	00
	7A	MAINTENANCE PRACTICE -PARTB	80	110	7.8-7.14 &7.16-7.20	7A-69-7A-119
	10	AVIATION LEGISLATION-PART B	90	00	10.3,10.5,10.6 -10.9	00
		TOTAL	250	150		
	THEORY + PRACTICAL	400				
3 <sup>RD</sup> SEMESTER	6	MATERIAL & HARDWARE- Part B	40	00	6.5-6.11	00
	9A	HUMAN FACTORS	80	00	9.1-9.9	00
	11A	TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS- PART A	80	100	11.1- 11.3,11.9,11.1 1,11.13	11A-01-11A-52
		TOTAL	200	100		
	THEORY + PRACTICAL	300				

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01		
ISSUE NUMBER	02	January 2023	
REVISION NUMBER & DATE	00		

SEMESTER	CODE	COURSE NAME	THEORY HOURS	PRACTICAL HOURS	THEORY + PRACTICAL HOURS	START DATE	END DATE
4 <sup>TH</sup> SEMESTER	5	DIGITAL TECHNIQUES/ ELECTRONIC INSTRUMENT SYSTEMS	70	30		5.1-5.15	5-01-5-14
	11A	TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS PART-B	90	50		11.4,11.7,11.8 ,11.10,11.12,1 1.15-11.18	11A-53-11A-77
	15	GAS TURBINE ENGINE PART-A	90	20		15.1-15.4	15-01-15-08
		TOTAL	250	100			
		THEORY + PRACTICAL	350				
5 <sup>TH</sup> SEMESTER	11A	TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS PART-C	80	40		11.6,11.14	11A-78-11A-97
	15	GAS TURBINE ENGINE PART-B	90	40		15.5- 15.10,15.12,1 5.14	15-09-15-24
	17A	PROPELLER	80	20		17.1-17.7	17A-01-17A-10
		TOTAL	250	100			
		THEORY + PRACTICAL	350				
6 <sup>TH</sup> SEMESTER	11A	TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS PART-D	90	35		11.5,11.19- 11.21	11A-98-11A- 112
	15	GAS TURBINE ENGINE PART-C	90	35		15.11,15.13,1 5.15,15.17- 15.22	15-25-15-34
		TOTAL	180	70			
		THEORY + PRACTICAL	250				

MODULE	SUB- MODULE	LEVEL	HOURS ALLOTTED
3 (ELECTRICAL FUNDAMENTAL)	3.1 Electron Theory	1	2
	3.2 Static Electricity and Conduction	2	2
	3.3 Electrical Terminology	2	2
	3.4 Generation of Electricity	1	2
	3.5 DC Sources of Electricity	2	8
	3.6 DC Circuits	2	4
	3.7 Resistance/Resistor	2	6

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

	3.8 Power	2	2	
	3.9 Capacitance/Capacitor	2	4	
	3.10 Magnetism	2	4	
	3.11 Inductance/Inductor	2	5	
	3.12 DC Motor/Generator Theory	2	9	
	3.13 AC Theory	2	5	
	3.14 Resistive (R), Capacitive (C) and Inductive (L) Circuits	2	5	
	3.15 Transformers	2	5	
	3.16 Filters	1	2	
	3.17 AC Generators	2	5	
	3.18 AC Motors	2	8	
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>80</b>	
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>70</b>	
<b>4 (ELECTRONICS FUNDAMENTAL)</b>	4.1.1 Semiconductors- diode	2	15	
	4.1.2 Semiconductors- Transistors	1	3	
	4.1.3 Semiconductors- Integrated Circuits	1	5	
	4.2 Printed Circuit Boards	1	10	
	4.3 Servomechanisms	1	7	
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>40</b>	
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>40</b>	
<b>5 (DIGITAL TECHNIQUES ELECTRONIC INSTRUMENT SYSTEMS)</b>	5.1 Electronic Instrument Systems	2	5	
	5.2 Numbering Systems	1	5	
	5.3 Data Conversion	1	5	
	5.4 Data Buses	1	5	
	5.5 Logic Circuits	2	5	
	5.6 Basic Computer Structure	2	5	
	5.10 Fiber Optics	1	5	
	5.11 Electronic Displays	2	5	
	5.12 Electrostatic Sensitive Devices	2	5	
	5.13 Software Management Control	2	5	
	5.14 Electromagnetic Environment	2	5	
	5.15 Typical Electronic/Digital Aircraft Systems	2	15	
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>70</b>	
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>30</b>	
<b>6.</b>	6.1 Aircraft Materials — Ferrous	2	15	

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalalur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

<b>(MATERIALS AND HARDWARE)</b>	6.2 Aircraft Materials — Non-Ferrous	2	8	
	6.3.1 Composite and metallic other than wood & fabric	2	6	
	6.3.2 Wooden structures	2	1	
	6.3.2 Fabric covering	2	1	
	6.4 Corrosion	1	9	
	6.5 Fasteners	2	23	
	6.6 Pipes and Unions	2	7	
	6.7 Springs	2	2	
	6.8 Bearings	2	2	
	6.9 Transmissions	2	2	
	6.10 Control Cables	2	2	
	6.11 Electrical Cables and Connectors	2	2	
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>			<b>80</b>
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>			<b>00</b>
<b>7A. (MAINTENANCE PRACTICES)</b>	7.1 Safety Precautions-Aircraft and Workshop	3	5	
	7.2 Workshop Practices	3	5	
	7.3 Tools	3	40	
	7.4 Avionic General Test Equipment	2	5	
	7.5 Engineering Drawings, Diagrams and Standards	2	10	
	7.6 Fits and Clearances	2	5	
	7.7 Electrical Wiring Interconnection System (EWIS)	3	5	
	7.8 Riveting	2	3	
	7.9 Pipes and Hoses	2	2	
	7.10 Springs	2	1	
	7.11 Bearings	2	2	
	7.12 Transmissions	2	2	
	7.13 Control Cables	2	2	
	7.14 Material handling	2	13	
	7.15 Welding, Brazing, Soldering and Bonding	2	5	
	7.16 Aircraft Weight and Balance	2	11	
	7.17 Aircraft Handling and Storage	2	25	
	7.18 Disassembly, Inspection, Repair and Assembly Techniques	3	10	
	7.19 Abnormal Events	2	4	
	7.20 Maintenance Procedures	2	5	
<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>			<b>160</b>	

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>180</b>
<b>8. (BASIC AERODYNAMICS)</b>	8.1 Physics of the Atmosphere	2	5
	8.2 Aerodynamics	2	25
	8.3 Theory of Flight	2	15
	8.4 Flight Stability and Dynamics	2	15
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>60</b>
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>00</b>
<b>9A. (HUMAN FACTORS)</b>	9.1 General	2	2
	9.2 Human Performance and Limitations	2	15
	9.3 Social Psychology	1	10
	9.4 Factors Affecting Performance	2	10
	9.5 Physical Environment	1	10
	9.6 Tasks	1	8
	9.7 Communication	2	5
	9.8 Human Error	2	15
	9.9 Hazards in the Workplace	2	5
		<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>	
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>00</b>
<b>10. (AVIATION LEGISLATION)</b>	10.1 Regulatory Framework	1	40
	10.2 CAR-66 Certifying Staff - Maintenance	2	20
	10.3 CAR-145 — Approved Maintenance Organizations	2	30
	10.4 Aircraft Operations	1	10
	10.5 Aircraft Certification	1	25
	10.6 CAR-M	2	20
	10.7 Applicable National and International Requirements	2	25
	10.8 Safety Management System	2	5
	10.9 Fuel Tank Safety	2	5
		<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>	
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>00</b>
<b>11A. (TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS)</b>	11.1 Theory of Flight	2	30
	11.2 Airframe Structures — General Concepts	2	6
	11.3 Airframe Structures — Aero planes	2	14
	11.4 Air Conditioning and Cabin Pressurization (ATA 21)	3	15
	11.5.1 Instruments Systems	2	45
	11.5.2 Avionic Systems	1	30

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

	11.6 Electrical Power (ATA 24)	3	60
	11.7 Equipment and Furnishings (ATA 25)	2	10
	11.8 Fire Protection (ATA 26)	3	10
	11.9 Flight Controls (ATA 27)	3	10
	11.10 Fuel Systems (ATA 28)	3	10
	11.11 Hydraulic Power (ATA 29)	3	10
	11.12 Ice and Rain Protection (ATA 30)	3	10
	11.13 Landing Gear (ATA 32)	3	10
	11.14 Lights (ATA 33)	3	20
	11.15 Oxygen (ATA 35)	3	10
	11.16 Pneumatic/Vacuum (ATA 36)	3	10
	11.17 Water/Waste (ATA 38)	3	10
	11.18 On Board Maintenance Systems (ATA 45)	2	5
	11.19 Integrated Modular Avionics (ATA42 )	2	5
	11.20 Cabin Systems (ATA44)	2	5
	11.21 Information Systems (ATA46)	2	5
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>340</b>
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>225</b>
<b>15. (GAS TURBINE ENGINE)</b>	15.1 Fundamentals	2	30
	15.2 Engine Performance	2	30
	15.3 Inlet	2	15
	15.4 Compressors	2	15
	15.5 Combustion Section	2	10
	15.6 Turbine Section	2	15
	15.7 Exhaust	2	15
	15.8 Bearings and Seals	2	5
	15.9 Lubricants and Fuels	2	5
	15.10 Lubrication Systems	2	10
	15.11 Fuel Systems	2	20
	15.12 Air Systems	2	10
	15.13 Starting and Ignition Systems	2	10
	15.14 Engine Indication Systems	2	20
	15.15 Power Augmentation Systems	2	10
	15.16 Turbo-prop Engines	2	5
	15.17 Turbo-shaft engines	2	5
	15.18 Auxiliary Power Units (APUs)	2	5

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

	15.19 Power plant Installation	1	10
	15.20 Fire Protection Systems	2	5
	15.21 Engine Monitoring and Ground Operation	2	10
	15.22 Engine Storage and Preservation	2	10
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>280</b>
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>95</b>
<b>17A. (PROPELLER)</b>	17.1 Fundamentals	2	25
	17.2 Propeller Construction	2	25
	17.3 Propeller Pitch Control	2	10
	17.4 Propeller Synchronizing	2	5
	17.5 Propeller Ice Protection	2	5
	17.6 Propeller Maintenance	3	5
	17.7 Propeller Storage and Preservation	2	5
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>80</b>
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>20</b>

S/N	ATA	CAR-66 REF.	TASK NUMBER	BASIC PRACTICAL TASKS	PERFORMED ON	LEVEL	ALLOT ED HOURS
<b>MODULE 3 (ELECTRICAL FUNDAMENTALS)- PRACTICAL</b>							
1.	--	3.3	3-01	Measure the single phase, three phase, and DC Voltage by AMM/Multimeter.	Lab	2	1
2.	--	3.5	3-02	Connect the battery in series and parallel and measure the voltage by multimeter	Battery Cart	2	1
3.	--	3.5	3-03	Charge the single and multiple battery suitable charger	Lab	2	1
4.	--	3.5	3-04	Measure the Voltage by thermocouple with the simple experiment.	Lab	2	1
5.	--	3.6	3-05	Verify the ohm law with experiments.	Lab	2	1
6.	--	3.6	3-06	Verify the Kirchhoff law with experiment.	Lab	2	1
7.	--	3.6	3-07	Perform the connection of appliances like, Switch, relay, shunt, bulb, ammeter, voltmeter, frequency meter, Fuse, circuit breaker, current limiter.	Lab	2	2
8.	--	3.7	3-08	Connect the resister in series, parallel and in combination and measure the value of resister through AMM/DMM. Compare	Lab	2	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				the measured and calculated value.			
9.	--	3.7	3-09	With the simple project verify the use of potentiometer and rheostat.	Lab	2	2
10.	--	3.7	3-10	Find out unknown resistance value by using Wheatstone Bridge	Lab	2	1
11.	--	3.7	3-11	With the simple project verify the use of VDR, and thermisters.	Lab	2	2
12.	--	3.9	3-12	Connect the capacitor in series, parallel and in combination and measure the value of capacitance through capacitor meter. Compare the measured and calculated value.	Lab	2	1
13.	--	3.9	3-13	Test the electrolyte capacitor for serviceability.	Lab	2	1
14.	--	3.11	3-14	Connect the inductor in series and parallel and measure the value of inductance through inductor meter. Compare the measured and calculated value	Lab	2	1
15.	--	3.11	3-15	Verify the of faradays law of electromagnetic Induction	Lab	2	1
16.	--	3.12	3-16	Perform the brush inspection of DC generator.	Lab	2	1
17.	--	3.12	3-17	Test the armature in Growler and through multimeter/test lamp	Lab	2	1
18.	--	3.12	3-18	Perform the Visual Inspection of DC Motor & Operate the DC motor.	Lab	2	1
19.	--	3.12	3-19	Perform the speed control of DC motor and measure the RPM of DC motor.	Lab	2	2
20.	--	3.12	3-20	Perform the direction reversing method of DC motor.	Lab	2	2
21.	--	3.12	3-21	Perform the Installation of Brush in DC motor & DC Generator.	Lab	2	2
22.	--	3.12	3-22	Perform the Visual Inspection of Starter Generator and check for brush wear and replace if damaged one.	Lab	2	2
23.	--	3.12	3-23	Measure field and armature resistance of	Lab	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)





# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

No.							
				DC machines			
24.	--	3.12	3-24	Test for continuity and insulation resistance of DC machine	Lab	2	2
25.	--	3.12	3-25	Practice dismantling and assembling in DC Motor/ Generator	Lab	2	2
26.	--	3.13	3-26	Measure three phase current, voltage, power and power factor in 3 phase circuit with lamp load	Lab	2	2
27.	--	3.13	3-27	Ascertain use of neutral by identifying wires of a 3-phase 4 wire system and find the phase sequence using phase sequence meter	Lab	2	2
28.	--	3.13	3-28	Determine effect of broken neutral wire in three phase four wire system	Lab	2	2
29.	--	3.13	3-29	Perform the star and delta wiring.	Lab	2	2
30.	--	3.13	3-30	Determine the relationship between Line and Phase values for star and delta connections	Lab	2	2
31.	--	3.13	3-31	Perform the interlocking connection of power supply	Lab	2	2
32.	--	3.13	3-32	Control the intensity of light by simple circuit.	Lab	2	2
33.	--	3.14	3-33	Measure the power by using watt meter and VAR meter	Lab	2	2
34.	--	3.15	3-34	Perform the use of voltage transformer (step up and step down) by simple circuit	Lab	2	2
35.		3.15	3-35	Perform the use of current transformer by using simple circuit.	Lab	2	2
36.	--	3.15	3-36	Perform the testing of transformers (Current and Voltage)	Lab	2	2
37.	--	3.15	3-37	Measure the input and output Voltage of Variac.	Lab	2	2
38.	--	3.15	3-38	Fabricate the Transformer rectifier unit of 12V DC/24 V DC.	Lab	2	1
39.	--	3.16	3-39	Fabricate the RC, LC, RLC filter and utilize in filtration purpose in TRU.	Lab	1	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

40.	--	3.18	3-40	Operate the AC motors & Perform reversing of direction of rotation of single phase and three phase Induction AC motors.	Lab	2	1
41.	--	3.18	3-41	Perform the speed control of single phase and three phase Induction AC Motors.	Lab	2	1
42.	--	3.18	3-42	Connect the single phase and three phase synchronous motor with starter.	Lab	2	1
43.	--	3.18	3-43	Perform the connection of push to start and push to stop for electrical appliances light motors and lights	Lab	2	1
44.	--	-----	3-44	Perform the operation of timer relay.	Lab	2	1
45.	--	-----	3-45	Demonstrate the operation of overload sensor with experiments.	Lab	2	2
46.	-----	-----	3-46	Demonstrate the operation of overvoltage and under voltage relay with experiments.	Lab	2	2

### TOTAL IN-HOUSE PRACTICAL HOURS

70

### MODULE- 4(ELECTRONICS FUNDAMENTAL)-PRACTICAL

47.	--	4.1	4-01	Identify the common electronics components/Semiconductor devices and perform its testing by DMM/AMM.	LAB	2	2
48.	--	4.1.1	4-02	Measure the voltage and current through a diode in a circuit and verify its forward characteristics	LAB	2	2
49.	--	4.1.1	4-03	Perform the forwards and reverse bias of PN Junction through simple circuit	LAB	2	2
50.	--	4.1.1	4-04	Determine the load resistance for LEDs across 5V, 12 V DC power supply and operate the LED.	LAB	2	2
51.	--	4.1.1	4-05	To plot V-I Characteristics of Zener Diode.	LAB	2	2
52.	--	4.1.1	4-06	Construct a simple voltage regulator by using Zener Diode.	LAB	2	2
53.	--	4.1.1	4-07	Connect the varister diode as a switching device to illuminate a load lamp.	LAB	2	2
54.	--	4.1.1	4-08	Construct a circuit to switch a buzzer lamp load using photo diode.	LAB	2	2

SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

55.	--	4.1.1	4-09	Fabricate the thirster as a switching circuit for load operation.	LAB	2	2
56.	--	4.1.1	4-10	Fabricate the half wave, full wave bridge rectifier for single phase and three phase input.	LAB	2	2
57.	--	4.1.1	4-11	Fabricate the voltage doublers and triplers using simple circuit	LAB	2	2
58.	--	4.1.1	4-12	Fabricate the simple clipper and clamper circuit using diode.	LAB	2	2
59.	--	4.1.2	4-13	To plot the Characteristics of a BJT in Common Emitter Configuration.	LAB	2	2
60.	--	4.1.2	4-14	Construct & test transistor as a switch.	LAB	2	2
61.	--	4.1.2	4-15	Construct and test transistor based relay control circuit.	LAB	2	2
62.	--	4.1.2	4-16	To study the Characteristics of a Junction Field Effect Transistor (JFET).	LAB	2	2
63.	--	4.1.2	4-17	Construct and test and amplifier circuit	LAB	2	2
64.	--	4.1.2	4-18	Construct a stable multivibrator using transistor.	LAB	2	2
65.	--	4.1.3	4-19	Construct and test inverting and non inverting amplifier using OP AMPs	LAB	2	2
66.	--	4.3	4-20	Perform the connection of DC synchro (transmitter & receiver) and AC synchro and measure the angular deflection.	LAB	2	2

**TOTAL IN-HOUSE PRACTICAL HOURS** 40

### MODULE-5 (DIGITAL TECHNIQS/ ELECTRONIC INSTRUMENT SYSTEMS)-PRACTICAL

67.	--	5.3	5-01	Fabricate the simple circuit for Analogue to Digital converter	LAB	2	2
68.	--	5.3	5-02	Fabricate the simple circuit for digital to analogue converter	LAB	2	2
69.	--	5.5	5-03	Fabricate the all Verify the truth table for universal logic Gate	LAB	2	2
70.	--	5.5	5-04	Fabricate the all Verify the truth table for universal logic Gate	LAB	2	2
71.	--	5.5	5-05	Perform the use of logic probe	LAB	2	2
72.	--	5.6	5-06	Show basic parts of computer and showing	LAB	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January 2023
REVISION NUMBER & DATE	00	

				different parts inside CPU like hard-disk, primary storage, motherboard, I/o devices.				
73.	--	5.7	5-07	Demonstrate the Microprocessor using IC 8085	LAB	2	2	
74.	--	5.8	5-08	Fabricate the simple encoder circuit	LAB	2	2	
75.	--	5.8	5-09	Fabricate the simple decoder circuit	LAB	2	2	
76.	--	5.9	5-10	Verify of truth table of multiplexer and demultiplexer using 74151 and 74154 IC	LAB	2	2	
77.	--	5.10	5-11	Perform the cutting, striping of fiber optic cable and termination with the connectors.	LAB	2	2	
78.	--	5.12	5-12	Perform e the handling and transportation of ESDS items	LAB	2	2	
79.	--	5.12	5-13	Perform the method of protection of aircraft avionics from lightening strikes /HIRF	LAB	2	2	
80.	--	5.15	5-14	Set the frequency in function generator of different amplitude & Study of CRO and to find the Amplitude and Frequency using CRO. To measure the Unknown Frequency & Phase difference using CRO	LAB	2	4	
TOTAL IN-HOUSE PRACTICAL HOURS							30	
<b>MODULE-7A (MAINTENANCE PRACTICE)-PRACTICAL</b>								
81.	--	7.1	7A-01	Perform the mock drill for operation of Fire Extinguisher. Perform The Mock Drill for First AID in the event of Electrical Shock.	Lab	3	2	
82.	--	7.2	7A-02	Perform care procedure of hand tools a. Care of Hammers. b. Care of Screwdrivers. c. Care of Wrenches. d. Care of Pliers and Tongs. e. Care of Chisels. f. Care of Punches. g. Care of Files.	Tool Crib	3	1	

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				h. Care of Taps. i. Care of Dies. j. Care of Dividers & Callipers. k. Care of Micrometres. l. Care of Rules. m. Care of Scriber.			
83.	--	7.3	7A-03	To make a square fit from the given mid steel pieces	Gen Engg. W/S	3	2
84.	--	7.3	7A-04	Use the plan and Philips screw drivers, Bits in combination of bit holders and ratchet, extension bar to open and tight the panel mounted screws.	Gen Engg. W/S	3	1
85.	--	7.3	7A-05	Open and tight the panel mounted screws by using speed handle, bits and holder.	Gen Engg. W/S	3	1
86.	--	7.3	7A-06	Open the panel mounted screw by using power operated screw drivers.	Gen Engg. W/S	3	1
87.	--	7.3	7A-07	Install and remove the nut and bolts assembly by using the combination spanners & adjustable spanners.	Gen Engg. W/S	3	1
88.	--	7.3	7A-08	Install and remove the nut and bolts assembly by using sockets, extension, ratchet, T handle, universal joint, expanders& reducers.	Gen Engg. W/S	3	1
89.	--	7.3	7A-09	Install and remove the nut and bolts assembly by using offset and offset socket wrenches.	Gen Engg. W/S	3	1
90.	--	7.3	7A-10	Remove and installed the set head screw or socket head screws.	Gen Engg. W/S	3	1
91.	--	7.3	7A-11	Grip the job at C clamp, tool maker clamp and grip vies pliers and remove the damaged exposed screw by using grip vise pilers.	Gen Engg. W/S	3	1
92.	--	7.3	7A-12	Perform the wire locking by using locking wire pliers	Gen Engg. W/S	3	1
93.	--	7.3	7A-13	Set and use the given torque value of torque in different units in torque	Gen Engg. W/S	3	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				wrenches.			
94.	--	7.3	7A-14	Use the screw extractor to remove the damage screw	Gen Engg. W/S	3	1
95.	--	7.3	7A-15	Remove and install the stud from assembly part.	Gen Engg. W/S	3	1
96.	--	7.3	7A-16	Use the crowfoot wrench and hook spanners to remove and installed nut and bolt from the assembly part.	Gen Engg. W/S	3	1
97.	--	7.3	7A-17	Remove and installed the circlip by using the circlip pliers.	Gen Engg. W/S	3	1
98.	--	7.3	7A-18	Use the impact drivers to break loose a stubborn fastener.	Gen Engg. W/S	3	1
99.	--	7.3	7A-19	Perform the measurements by using the steel rule (metric and Inches).	Gen Engg. W/S	3	1
100.	--	7.3	7A-20	Perform the measurements by using the outside micrometer (imperial and metric).	Gen Engg. W/S	3	1
101.	--	7.3	7A-21	Perform the measurements by using the Vernier callipers (imperial and metric).	Gen Engg. W/S	3	1
102.	--	7.3	7A-22	Perform the measurements by using the Vernier height gauge.	Gen Engg. W/S	3	1
103.	--	7.3	7A-23	Perform the measurements by using the Vernier depth gauge.	Gen Engg. W/S	3	1
104.	--	7.3	7A-24	Perform the measurements by using the Telescoping gauge.	Gen Engg. W/S	3	1
105.	--	7.3	7A-25	Perform the measurements by using the small hole gauge.	Gen Engg. W/S	3	1
106.	--	7.3	7A-26	Perform the measurements by using the dial test indicator (imperial and metric).	Gen Engg. W/S	3	1
107.	--	7.3	7A-27	Perform the angle measurements by using the precession bevel protector.	Gen Engg. W/S	3	1
108.	--	7.3	7A-28	Perform measurement by using the combination set.	Gen Engg. W/S	3	1
109.	--	7.3	7A-29	Measure the inside diameter of a job by using the inside callipers	Gen Engg. W/S	3	1
110.	--	7.3	7A-30	Measure the outside diameter of a job by using the outside callipers	Gen Engg. W/S	3	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

111.	--	7.3	7A-31	Transfer the measurement from outside to inside callipers	Gen Engg. W/S	3	1
112.	--	7.3	7A-32	Measure the distance and draw an arc & circle by using the dividers.	Gen Engg. W/S	3	1
113.	--	7.3	7A-33	Draw parallel lines by using the jenny callipers & find the centre of round bars by using jenny callipers.	Gen Engg. W/S	3	1
114.	--	7.3	7A-34	Check the hole of exact size by using Ring gauge.	Gen Engg. W/S	3	1
115.	--	7.3	7A-35	Check the accuracy of holes by using plug gauge	Gen Engg. W/S	3	1
116.	--	7.3	7A-36	Check the size of the drill bits by using the drill gauge	Gen Engg. W/S	3	1
117.	--	7.3	7A-37	Measure the clearance or gaps by using feeler or thickness gauge	Gen Engg. W/S	3	1
118.	--	7.3	7A-38	Check the inside and outside radius of a component by using a fillet or radius gauge.	Gen Engg. W/S	3	1
119.	--	7.3	7A-39	Check the pitch of a thread by using screw pitch gauge	Gen Engg. W/S	3	1
120.	--	7.3	7A-40	Perform the measurement by use of Go and not go gauge	Gen Engg. W/S	3	1
121.	--	7.3	7A-41	Check the wire size by using the SWG/AWG.	Gen Engg. W/S	3	1
122.	--	7.3	7A-42	Check the flatness of surface by using inclinometer	Gen Engg. W/S	3	1
123.	--	7.6	7A-43	Drill holes as per the given size by using of pillar and sensitive drill machine.	Gen Engg. W/S	3	1
124.	--	7.6	7A-44	Perform the reaming operation to enlarge the drilled holes to accurate dimensions.	Gen Engg. W/S	3	1
125.	--	7.6	7A-45	Cut the internal screw thread on drilled holes by using the taps.	Gen Engg. W/S	3	1
126.	--	7.6	7A-46	Cut the external screw threads on round bar metals by using the dies.	Gen Engg. W/S	3	1
127.	--	7.3	7A-47	Perform the grinding operation on a specimen job	Gen Engg. W/S	3	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

128.	--	7.3	7A-48	Perform the buffing operation on a specimen job	Gen Engg. W/S	3	1
129.	--	7.3	7A-49	Cut the job piece by Powered hacksaw.	Gen Engg. W/S	3	1
130.	--	7.3	7A-50	Cut the metal sheet by using Sheet metal guillotine/hand shear machine.	Gen Engg. W/S	3	1
131.	--	7.3	7A-51	Perform the turning operation for a job on lathe machine.	Gen Engg. W/S	3	1
132.	--	7.6	7A-52	Perform the Counter boring, spot facing and countersinking operation.	Gen Engg. W/S	3	1
133.	--	7.6	7A-53	To cut a spur gear tooth on a given circular blank by gear cutting processes on horizontal milling machine.	Gen Engg. W/S	3	1
134.	--	7.15	7A-54	Perform electric arc welding and make the different joints.	Gen Engg. W/S	3	1
135.	--	7.15	7A-55	Perform TIG welding and make the different joints.	Gen Engg. W/S	3	1
136.	--	7.15	7A-56	Perform the oxy Acetylene welding by using different flame.	Gen Engg. W/S	3	1
137.	--	7.15	7A-57	Perform the spot welding on a job piece.	Gen Engg. W/S	3	1
138.	--	7.7	7A-58	Use multimeter to meters to measure AC and DC volts, amps and resistance.	Electrical Lab	3	1
139.	--	7.7	7A-59	Check an aircraft electrical circuit for continuity in conjunction with an electrical wiring diagram	Electrical Lab	3	1
140.	--	7.7	7A-60	Check the insulation resistance by using megger	Electrical Lab	3	1
141.	--	7.7	7A-61	Perform wire splicing.	Electrical Lab	3	1
142.	--	7.7	7A-62	Insert / extract electrical inserts (pins) in a variety of electrical connectors.	Electrical Lab	3	1
143.	--	7.7	7A-63	Perform the tying and lacing of aircraft wire bundle.	Electrical Lab	3	1
144.	--	7.7	7A-64	Perform crimping to prepare cable ends or plug / socket terminals.	Electrical Lab	3	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)





# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

145.	--	7.7	7A-65	Perform cutting, stripping of coaxial cable and crimping of BNC connector with coaxial cable.	Electrical Lab	3	1
146.	--	7.7	7A-66	Find out the cable length, amperage, voltage and size of the cables by referring charts and identification of codes.	Electrical Lab	3	1
147.	--	7.7	7A-67	Measure the resistance of bonding jumpers by using mill ohmmeter.	Electrical Lab	3	1
148.	--	7.7	7A-68	Perform the electrical wire and component soldering.	Electrical Lab	3	1
149.	--	7.8	7A-69	Perform the riveting in panel by use of hand riveter	LAB	2	5
150.	--	7.8	7A-70	Perform the riveting in panel by use of pneumatic hammer.	LAB	2	5
151.	--	7.8	7A-71	Perform of the inspection of Riveted Joints	LAB	2	1
152.	--	7.9	7A-72	Perform tube cutting & tube bending by using the hand tube bender as per given dimensions.	LAB	2	2
153.	--	7.9	7A-73	Perform the tube flaring practice single and double flare method	LAB	2	2
154.	--	7.9	7A-74	Perform the tube beading practice to join the two tube	LAB	2	2
155.	--	7.9	7A-75	Perform the tube beading practices to join the rigid and flexible hoses.	LAB	2	2
156.	--	7.9	7A-76	Remove and installed the flare and flameless pipelines and inspect the pipelines, fitting and sleeve and B nuts.	LAB	2	2
157.	--	7.9	7A-77	Perform the tube/flexible hose Installation, Inspection practice.	LAB	2	2
158.	--	7.9	7A-78	Fabricate the flexible hose for flare and flare less fittings.	Lab	2	2
159.	--	7.10	7A-79	Measure the dimensions of coils springs perform the visual Inspection of springs	LAB/ AIRCRAFAT	2	2
160.	--	7.11	7A-80	Perform cleaning, lubrication and inspection of bearings	LAB	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

161.	--	7.12	7A-81	Inspect and lubricate the screw jacks.	LAB/ AIRCRAFAT	2	2
162.	--	7.12	7A-82	Inspect the levers, push-pull rod, belts, pulleys, chain and sprockets.	LAB/ AIRCRAFAT	2	2
163.	--	7.12	7A-83	Check backlash of gears	LAB/ AIRCRAFAT	2	2
164.	--	7.13	7A-84	Perform the control cable swaging with end fitting	LAB	2	2
165.	--	7.13	7A-85	Perform the inspection and tension testing of control cable	LAB	2	2
166.	--	7.13	7A-86	Install and remove the turnbuckle and perform the locking practice	LAB	2	2
167.	--	7.13	7A-87	Perform the inspection of flexible control cable.	LAB	2	2
168.	--	7.14	7A-88	Make the panel by use of carbon fiber of Given Thickness.	AIRCRAFT	2	2
169.	--	7.16	7A-89	Demonstration of the leveling of an aircraft	AIRCRAFT	2	2
170.	--	7.16	7A-90	Prepare the aircraft for weighing	AIRCRAFT	2	6
171.	--	7.16	7A-91	Practice the load and trim sheet	AIRCRAFT	2	2
172.	--	7.16	7A-92	Perform extreme load condition check	AIRCRAFT	2	2
173.	--	7.17	7A-93	Perform jacking of nose or tail wheel	AIRCRAFT	2	2
174.	--	7.17	7A-94	Perform jacking of complete aircraft	AIRCRAFT	2	2
175.	--	7.17	7A-95	Perform the use of chocks, sling ,trestle, ladder and other ground handling equipment	AIRCRAFT	2	2
176.	--	7.17	7A-96	Parking, mooring, chocking and grounding of aircraft	AIRCRAFT	2	2
177.	--	7.17	7A-97	Perform long time parking	AIRCRAFT	2	2
178.	--	7.17	7A-98	Perform the towing of aircraft	AIRCRAFT	2	2
179.	--	7.17	7A-99	Check the tire pressure and charge the hydraulic fluid in to the tank/reservoir of brakes	AIRCRAFT	2	2
180.	--	7.17	7A-100	Connect and use external electrical power in the aircraft	AIRCRAFT	2	2
181.	--	7.17	7A-101	Perform the fueling and defueling of	AIRCRAFT	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				aircraft			
182.	--	7.17	7A-102	Perform the de-icing operation	AIRCRAFT	2	2
183.	--	7.17	7A-103	Perform the Marshalling of fixed wing and Rotary wing.	AIRCRAFT	2	2
184.	--	7.17	7A-104	Perform the general Inspection of servicing of GSE like compressor, battery cart, GPU, Hydraulic Cart, Jack, trestle, Mobile Gantry etc.	AIRCRAFT	2	2
185.	--	7.18	7A-105	Perform the Dy. Penetrate color contrast on sample Job	LAB	3	2
186.	--	7.18	7A-106	Perform the Florescent Penetrate Inspection and Fluorescent Magnetic particle NDT method for flaw detection on sample job.	LAB	3	2
187.	--	7.18	7A-107	Perform the Magnetic particle NDT method for flaw detection.	LAB	3	2
188.	--	7.19	7A-108	Perform the special inspection schedule of heavy landing, lightening strike, HIRF.	LAB	3	2
189.	--	7.20	7A-109	Fill the aircraft log book after work	AIRCRAFT	2	2
190.	--	7.20	7A-110	Fill the engine log book after work	AIRCRAFT	2	2
191.	--	7.20	7A-111	Fill the propeller log book aircraft work	AIRCRAFT	2	2
192.	--	7.20	7A-112	Fill the radio apparatus log book after work	AIRCRAFT	2	2
193.	--	7.20	7A-113	Fill the JLB, FRB and technical log for flight	AIRCRAFT	2	2
194.	--	7.20	7A-114	Raised the work order/call out for maintenance activity.	AIRCRAFT	2	2
195.	--	7.20	7A-115	Fill the CRS and CA form 1 after maintenance work	AIRCRAFT	2	2
196.	--	7.20	7A-116	Practice the filling of all Maintenance tags	AIRCRAFT	2	2
197.	--	7.20	7A-117	Inspect the bonded and quarantine store as per check list	Lab	2	1
198.	--	7.20	7A-118	Perform the Daily Inspection of Learjet 25 aircraft.	AIRCRAFT	2	2
199.	--	7.20	7A-119	Identify the life limited component by referring the part number in Learjet 25 aircraft	AIRCRAFT	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

TOTAL IN-HOUSE PRACTICAL HOURS							180
MODULE-11A (TURBINE AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS)-PRACTICAL							
200.	6	11.2	11A-01	Verify the dimension area of Learjet 25 Aircraft.	Aircraft	2	2
201.	6	11.2	11A-02	Locate the frame of Learjet 25 Aircraft through fuselage station number system.	Aircraft	2	2
202.	6	11.2	11A-03	Designate the water line in the Learjet 25 Aircraft.	Aircraft	2	2
203.	6	11.2	11A-04	Designate the Buttock line in the Learjet 25 Aircraft.	Aircraft	2	2
204.	6	11.2	11A-05	Designate the Wing station in the Learjet 25 Aircraft.	Aircraft	2	2
205.	6	11.2	11A-06	Designate the NAC STA in the Learjet 25 Aircraft.	Aircraft	2	2
206.	6	11.2	11A-07	Designate the TIP TANK STA in the Learjet 25 Aircraft.	Aircraft	2	2
207.	11	11.2	11A-08	Perform the external placarding of Learjet 25 aircraft	Aircraft	2	2
208.	11	11.2	11A-09	Perform the internal placarding of Learjet 25 Aircraft.	Aircraft	2	2
209.	12	11.2	11A-10	Perform the visual inspection of drain and vent line and perform the servicing.	Aircraft	2	2
210.	23	11.2	11A-11	Perform the visual inspection of Static discharger wicks and perform removal and fitment of Static discharger wicks.	Aircraft	2	2
211.	23	11.2	11A-12	Perform the functional test of static discharger wicks	Aircraft	2	2
212.	-----	11.2	11A-13	Inspect the bonding jumper, clean the hardware and check the resistance of bonding jumper.	Aircraft	2	2
213.	-----	11.2	11A-14	Strip the paint by using the paint striper	Aircraft	2	1
214.	-----	11.2	11A-15	Touch up the zinc chromate primer in the panel and apply paint as anticorrosive layer.	Aircraft	2	1
215.	-----	11.2	11A-16	Clean the surface of aircraft by dry cloth	Aircraft	2	2
216.	-----	11.2	11A-17	Wash the surface by wet method	Aircraft	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

217.	55	11.3.1	11A-18	Perform the visual inspection of Fuselage surface and locate the aft pressure bulkhead. Remove and re- fit the aft pressure bulkhead.	Aircraft	2	2
218.	57	11.3.2	11A-19	Remove the fuselage and wing attachment fairing , visually inspect the attachment nut and bolt & the Perform the policing of wing	Aircraft	2	2
219.	57	11.3.2	11A-20	Remove the fairing of Horizontal stabilizer and clean the area nearby.	Aircraft	2	2
220.	57	11.3.2	11A-21	Inspect the horizontal stabilizer hinge pin, sleeve and attach fitting for good condition.	Aircraft	2	2
221.	56	11.3.1	11A-22	Perform the cleaning of Acrylic Windows	Aircraft	2	2
222.	27	11.9	11A-23	Perform the visual inspection, operation and lubrication of primary flight control surface.	Aircraft	3	2
223.	27	11.9	11A-24	Perform the operation check of Flap and visually inspect the flap system for damage, deformation, lubricate the flap as per lubricating schedule.	Aircraft	3	2
224.	27	11.9	11A-25	Perform the removal and installation of Flap	Aircraft	3	2
225.	27	11.9	11A-26	Perform the operation check of spoilers and visually inspect the spoiler's system components for damage, deformation, lubricate the spoilers as per lubricating schedule.	Aircraft	3	2
226.	27	11.9	11A-27	Check the aileron, rudder trim tab operational check and perform the removal installation of actuator for servicing.	Aircraft	3	2
227.	27	11.9	11A-28	Perform the removal Installation of all access panels.	Aircraft	3	2
228.	27	11.9	11A-29	Perform the Horizontal Stabilizer timing operational check and inspected the actuator for proper mounting and security.	Aircraft	3	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

229.	29	11.11	11A-30	Locate the component and perform visual inspection of all hydraulic system components of Learjet 25 Aircraft for security of attachments, leaks and damage.	Aircraft	3	2
230.	29	11.11	11A-31	Depressurize Hydraulic System for system servicing.	Aircraft	3	2
231.	29	11.11	11A-32	Pressurize the Hydraulic Accumulator with dry air or nitrogen of 800 PSI.	Aircraft	3	2
232.	29	11.11	11A-33	Service the Hydraulic Reservoir by Hand for correct level of fluid (MIL-PRF-5606 -H)	Aircraft	3	2
233.	29	11.11	11A-34	Service the Hydraulic Reservoir by Using Hydraulic Power Unit for correct level of fluid (MIL-PRF-5606 -H)	Aircraft	3	2
234.	29	11.11	11A-35	Perform Hydraulic System Leakage Check	Aircraft	3	2
235.	29	11.11	11A-36	Perform the Functional Test of Hydraulic Supply Shutoff Valve	Aircraft	3	2
236.	29	11.11	11A-37	Perform the Removal/Installation and cleaning of hydraulic filter.	Aircraft	3	1
237.	32	11.13	11A-38	Locate the main landing gear Hydraulic Components and perform visual inspection for security and attachments.	Aircraft	3	2
238.	32	11.13	11A-39	Perform removal and fitment of main landing gear actuator.	Aircraft	3	2
239.	32	11.13	11A-40	Perform removal and fitment of inboard door actuator.	Aircraft	3	2
240.	32	11.13	11A-41	Check the shock strut for proper extension and service the strut with MIL-PRF-5606 (H) and dry air or nitrogen.	Aircraft	3	2
241.	32	11.13	11A-42	Clean and Lubricate main Landing gear lubrication points.	Aircraft	3	2
242.	32	11.13	11A-43	Clean and Lubricate main Nose gear, Door (inboard and out board) lubrication points	Aircraft	3	2
243.	32	11.13	11A-44	Perform the removal and installation of main wheel and Nose Wheel.	Aircraft	3	2
244.	32	11.13	11A-45	Perform the disassembly of wheel for	Aircraft	3	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				cleaning & visual inspection of hubs			
245.	32	11.13	11A-46	Perform the Inspection of wheel axle for cracks by DPI method.	Aircraft	3	2
246.	32	11.13	11A-47	Locate the component of antiskid system and perform the detail visual Inspection.	Aircraft	3	2
247.	32	11.13	11A-48	Inspect Brakes for Excessive Wear	Aircraft	3	2
248.	32	11.13	11A-49	Perform the Bleeding of the brake	Aircraft	3	2
249.	32	11.13	11A-50	Perform operation check of brakes and apply and release the parking brake	Aircraft	3	2
250.	32	11.13	11A-51	Perform the extension and retraction test of landing gear.	Aircraft	3	2
251.	32	11.13	11A-52	Locate the component of emergency extension of landing gear and perform the visual inspection.	Aircraft	3	2
252.	21	11.4	11A-53	Locate the ACM & VCM air conditioning component and pressurisation component and perform the visual inspection for mounting and security and attachment.	Aircraft/ Airframe Lab	3	2
253.	21	11.4	11A-54	Inspect & Replace the belt of VCM compressor	Aircraft/ Airframe Lab	3	2
254.	21	11.4	11A-55	Perform the compressor oil charge	Aircraft/ Airframe Lab	3	2
255.	21	11.4	11A-56	Charge the refrigeration system with Freon	Aircraft/ Airframe Lab	3	2
256.	21	11.4	11A-57	Perform the removal and installation of Blower & Evaporation	Aircraft/ Airframe Lab	3	2
257.	21	11.4	11A-58	Perform removal and installation of condenser	Aircraft	3	2
258.	25	11.7	11A-59	Perform the inspection cleaning & removal and installation of crew seats	Aircraft	3	2
259.	25	11.7	11A-60	Perform the inspection cleaning & removal and installation of passenger	Aircraft	3	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				seats			
260.	26	11.8	11A-61	Locate the component of fire engine fire detection and extinguishing system and perform visual inspection.	Aircraft	3	2
261.	26	11.8	11A-62	Perform the fire detection test.	Aircraft	3	2
262.	26	11.8	11A-63	Remove the fire extinguisher bottle and perform weight check.	Aircraft	3	2
263.	26	11.8	11A-64	Perform the Functional Test of Engine Fire Extinguishing System	Aircraft	3	2
264.	30	11.12	11A-65	Locate the component for bleed air wing leading edge anti-icing system and perform the visual Inspection.	Aircraft	3	2
265.	30	11.12	11A-66	Perform the removal and fitment of Thermo switch or Temperature Sensor of wing leading edge anti icing system.	Aircraft	3	2
266.	30	11.12	11A-67	Locate the component for Engine nacelle anti icing system and perform the visual Inspection and operational check.	Aircraft	3	2
267.	30	11.12	11A-68	Perform the Nacelle Anti-Tee Heating Elements Resistance Check	Aircraft	3	2
268.	30	11.12	11A-69	Locate the component of engine anti icing system and perform general visual inspection and servicing.	Aircraft	3	2
269.	30	11.12	11A-70	Locate the component of wind shield Anti Icing system and perform the visual Inspection and general servicing.	Aircraft	3	2
270.	30	11.12	11A-71	Locate the component of Alcohol Windshield anti icing system and perform the general visual inspection and servicing.	Aircraft	3	2
271.	35	11.15	11A-72	Locate the oxygen system component and perform the detail visual inspection.	Aircraft	3	2
272.	35	11.15	11A-73	Perform the removal and fitment of oxygen cylinder.	Aircraft	3	2
273.	35	11.15	11A-74	Perform the removal and installation and cleaning of crew oxygen masks.	Aircraft	3	2
274.	35	11.15	11A-75	Perform the flow Detector and Hose	Aircraft	3	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)





# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				Replacement for crew oxygen mask.			
275.	35	11.15	11A-76	Perform the cleaning of passenger oxygen masks.	Aircraft	3	2
276.	36	11.16	11A-77	Perform the emergency air bottle removal and installation.	Aircraft	3	2
277.	33	11.14	11A-78	Replace the landing Light and perform operational Check.	Aircraft	3	2
278.	33	11.14	11A-79	Replace the navigation Light & perform the operational check.	Aircraft	3	2
279.	33	11.14	11A-80	Replace the anti-collision light and perform the operation check.	Aircraft	3	2
280.	33	11.14	11A-81	Replace the cabin light and perform the operational check.	Aircraft	3	2
281.	33	11.14	11A-82	Replace the cockpit light and annunciator light and perform operational check.	Aircraft	3	2
282.	24	11.6	11A-83	Perform removal and fitment battery in Aircraft.	Aircraft	3	2
283.	24	11.6	11A-84	Perform the removal and fitment of Inverter and perform operational check	Aircraft	3	2
284.	24	11.6	11A-85	Perform the removal and fitment of emergency power Unit.	Aircraft	3	2
285.	24	11.6	11A-86	Perform the visual inspection of cooling duct of starter generator and associated in removal and fitment.	Aircraft	3	2
286.	24	11.6	11A-87	Perform the insulation check of aircraft wire bundle.	Aircraft	3	2
287.	24	11.6	11A-88	Perform the removal and fitment of voltage regulator and adjust the voltage output	Aircraft	3	2
288.	24	11.6	11A-89	Associated with Starter Generator Removal and fitment on Learjet 25 Aircraft.	Aircraft	3	2
289.	24	11.6	11A-90	Associated with Starter-Generator Brush Wear Check on Learjet 25 Aircraft.	Aircraft	3	2
290.	24	11.6	11A-91	Associated with operational check of DC power distribution system.	Aircraft	3	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

291.	24	11.6	11A-92	Associated with Charging of the Lead acid battery	Aircraft	3	2
292.	24	11.6	11A-93	Associated with the Capacity test of Aircraft battery	Aircraft	3	2
293.	24	11.6	11A-94	Perform the Cleaning of NiCad battery cell and connectors.	Aircraft	3	2
294.	24	11.6	11A-95	Associated with the maintenance of battery sump Jar	Aircraft	3	2
295.	24	11.6	11A-96	Associated with Trouble Shooting if AC VOLTMETER read NO VOLTAGE.	Aircraft	3	2
296.	24	11.6	11A-97	Associated with Trouble Shooting if BATTERY SWICH SET TO ON, VOLTMETER INDICATES ZERO VOLTAGE.	Aircraft	3	2
297.	31	11.5.1	11A-98	Perform the Power on the Aircraft	Aircraft	2	1
298.	31	11.5.1	11A-99	Perform the leak test of pitot static system	Aircraft	2	4
299.	31	11.5.1	11A-100	Perform operational test of heater of Pitot Probe, Static Probe, AoA Probe.	Aircraft	2	2
300.	31	11.5.1	11A-101	Perform glass cleaning of all cockpit Instruments.	Aircraft	2	2
301.	31	11.5.1	11A-102	Inspect the Drain of pitot and static line and perform the general servicing.	Aircraft	2	2
302.	31	11.5.1	11A-103	Energize the electrical Turn and bank Indicator in Aircraft.	Aircraft	2	2
303.	31	11.5.1	11A-104	Perform the Stick Shaker operational check	Aircraft	2	2
304.	31	11.5.1	11A-105	Use the dead weight tester for calibration of Gauge.	Lab	2	4
305.	31	11.5.1	11A-106	Perform the compass swing and fill the compensation/calibration card.	Aircraft	2	4
306.	22	11.5.2	11A-107	Perform the removal and fitment of autopilot rate gyro.	Aircraft	2	2
307.	22	11.5.2	11A-108	Perform the removal and fitment of autopilot control panel.	Aircraft	2	2
308.	22	11.5.2	11A-109	Perform the removal and fitment of auto pilot computer, lateral accelerometer.	Aircraft	2	2
309.	22	11.5.2	11A-	Perform the removal and fitment of	Aircraft	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

			110	autopilot altitude controller.				
310.	23	11.5.2	11A-111	Perform the removal and fitment of VHF transceiver, control panel, audio select panel and antenna.	Aircraft	2	2	
311.	34	11.5.2	11A-112	Perform the removal and fitment of Directional gyro in Learjet 24 D aircraft	Aircraft	2	2	
TOTAL IN-HOUSE PRACTICAL HOURS							225	
<b>MODULE-15 (GAS TURBINE ENGINE)-PRACTICAL</b>								
312.	71	15.1	15-01	Associated with Removal and fitment of engine cowling of aircraft	AIRCRAFT	2	2	
313.	71	15.1	15-02	Locate the Engines components of CJ 610-4 Engine and perform the visual Inspection for security of mounting and general condition.	AIRCRAFT	2	6	
314.	71	15.1	15-03	Perform Engine Mount Inspection	AIRCRAFT	2	2	
315.	71	15.1	15-04	Uplift and drain the engine oil	AIRCRAFT	2	2	
316.	71	15.1	15-05	Inspect rear nacelle for security and general condition.	AIRCRAFT	2	2	
317.	71	15.4	15-06	Perform visual inspection of all bleed air ducts, lines, hoses, and electrical wiring located in the engine nacelle. Inspect for security, clamping, routing, clearance, evidence of leaks, and general condition	AIRCRAFT	2	2	
318.	71	15.3	15-07	Inspect nacelle structure, skin spot welds, and fasteners for cleanliness and general condition.	AIRCRAFT	2	2	
319.	71	15.3	15-08	Inspect inlet duct and duct seals for security and general condition.	AIRCRAFT	2	2	
320.	71	15.7	15-09	Inspect engine Fire detector elements for chafing, security of clamps, and general condition measure the resistance value.	AIRCRAFT	2	2	
321.	71	15.7	15-10	Inspect rear nacelle for security and general condition.	AIRCRAFT	2	2	
322.	71	15.6	15-11	Remove ball joint connector from engine end of throttle cable (RH and LH). Clean ball joint with solvent and inspect for	AIRCRAFT	2	2	

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				excessive binding or wear. Pack threaded hole of ball joint connector with grease and screw connector back onto throttle Cable. Ensure that grease is forced around ball. Check throttle cable rigging and safety wire jam nut.			
323.	71	15.7	15-12	Visually inspect both inside and outside of engine exhaust nozzles for cracks.	AIRCRAFT	2	4
324.	77	15.14	15-13	Perform the removal and fitment of engine Tacho generator, RPM indicator.	AIRCRAFT	2	4
325.	77	15.14	15-14	Perform the removal and fitment of EPR transducer; Indicator & drain for moisture.	AIRCRAFT	2	4
326.	77	15.14	15-15	Perform the Removal and fitment of Thermocouple Spool Assembly& perform the resistance check.	AIRCRAFT	2	4
327.	77	15.14	15-16	Perform the Removal and fitment of Thermocouple harness.	AIRCRAFT	2	2
328.	79	15.14	15-17	Perform the removal & fitment of Oil Pressure Transmitter.	AIRCRAFT	2	2
329.	79	15.14	15-18	Perform the removal & fitment of oil pressure switch and Indicator.	AIRCRAFT	2	2
330.	79	15.14	15-19	Perform the removal & fitment of Oil Temperature Indicator and oil temperature bulb.	AIRCRAFT	2	2
331.	73	15.14	15-20	Perform the removal & fitment Fuel Flow Transmitter.	AIRCRAFT	2	2
332.	73	15.14	15-21	Perform the removal & fitment Fuel Flow Indicator.	AIRCRAFT	2	2
333.	73	15.14	15-22	Perform the removal & fitment Fuel control box.	AIRCRAFT	2	2
334.	73	15.14	15-23	Perform the general cleaning of Engine.	AIRCRAFT	2	2
335.	73	15.14	15-24	Perform the functional test of fuel flow Indicator	AIRCRAFT	2	2
336.	74	15.13	15-25	Perform the removal and fitment of exciter box	Aircraft	2	3
337.	74	15.13	15-26	Perform the cleaning the igniter plug	Aircraft	2	3

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

338.	76	15.13	15-27	Remove and install throttle Ignition switch and perform adjustment of throttle switch.	Aircraft	2	3
339.	76	15.13	15-28	Perform removal and installation of throttle quadrant	Aircraft	2	3
340.	76	15.13	15-29	Perform the Visual Inspection of throttle Cable at each routing	Aircraft	2	3
341.	80	15.13	15-30	Perform the Cranking of Engine	Aircraft	2	3
342.	71	15.20	15-31	Perform removal and installation & inspection of engine fire detector sensor.	Aircraft	2	3
343.	49	15.20	15-32	Perform inspection of tubular lines of fire extinguishing of engine and perform removal and installation.	Aircraft	2	5
344.	71	15.22	15-33	Associated with Preservation and de preservation for the engine and accessories/ systems	Aircraft	2	6
345.	71	15.22	15-34	Perform the Chip detector removal and fitment.	Aircraft	2	3
TOTAL IN-HOUSE PRACTICAL HOURS							95
<b>MODULE-17A (PROPELLER)-PRACTICAL</b>							
346.	----	17.6	17A-01	Perform the propeller lubrication.	Aircraft	2	2
347.	----	17.6	17A-02	Measurement of blade angle with a propeller by protractor	Aircraft	2	2
348.	----	17.6	17A-03	Inspect and Clean an propeller	Aircraft	2	2
349.	----	17.6	17A-04	Carry out DPT Inspection on Blade	Aircraft	2	2
350.	----	17.6	17A-05	Perform the vertical balance check	Aircraft	2	2
351.	----	17.6	17A-06	Perform the horizontal balance check	Aircraft	2	2
352.	----	17.6	17A-07	Perform the propeller blade tracking	Aircraft	2	2
353.	----	17.6	17A-08	Perform the propeller hub safe tying.	Aircraft	2	2
354.	----	17.6	17A-09	Perform the preservation of propeller	Aircraft	2	2
355.	----	17.6	17A-10	Perform removal and Installation of fixed pitch propeller	Aircraft	2	2
TOTAL IN-HOUSE PRACTICAL HOURS							20

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January 2023
REVISION NUMBER & DATE	00	

COURSE TITLE	CAR 147 Basic
COURSE REFERENCE	CAR 66
CATEGORY	B 2
TOTAL DURATION OF THEORETICAL TRAINING	1440 Hrs
TOTAL DURATION OF IN HOUSE PRACTICAL TRAINING	660 Hrs
TOTAL DURATION OF AMO/ACTUAL MAINTENANCE WORKING ENVIRONMENT TRAINING	300 Hrs
TOTAL TRAINING	2400 Hrs

SEM	MOD ULE	SUBJECT	THEORY (Hrs)	PRACTICAL (Hrs)	THEORY PORTION	PRACTICAL PORTION	
1 <sup>ST</sup> SEMESTER	3	ELECTRICAL FUNDAMENTALS	80	70	3.1-3.18	3-01-3-46	
	7A	MAINTENANCE PRACTICE -PART A	80	70	7.1-7.7&7.15	7A-01-7A-68	
	8	BASIC AERODYNAMICS	60	00	8.1-8.4	00	
	10	AVIATION LEGISLATION- PART A	90	00	10.1-10.2,10.4,10.7	00	
		TOTAL		310	140		
		THEORY + PRACTICAL		450			
2 <sup>ND</sup> SEMESTER	4	ELECTRONIC FUNDAMENTALS	70	40	4.1-4.3	4-01-4-20	
	6	MATERIAL & HARDWARE -PART A	30	00	6.1-6.4	00	
	7A	MAINTENANCE PRACTICE –PART B	60	110	7.16-7.20	7A-69-7A-119	
	10	AVIATION LEGISLATION-PART B	90	00	10.3,10.5-10.9	00	
		TOTAL		250	150		
	THEORY + PRACTICAL		400				
3 <sup>RD</sup> SEMESTER	6	MATERIAL & HARDWARE- Part B	40	00	6.5-6.11	00	
	9A	HUMAN FACTORS	80	00	9.1-9.9	00	
	13	AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS- PART A	80	100	13.1,13.2,13.7,13.11.-13-19	13-01-13-50	
		TOTAL		200	100		
	THEORY + PRACTICAL		300				

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January 2023
REVISION NUMBER & DATE	00	

SEMESTER	Module No.	Module Name	Theory Hours	Practical Hours	Prerequisites	Effective Date
4 <sup>TH</sup> SEMESTER	5	DIGITAL TECHNIQUES/ ELECTRONIC INSTRUMENT SYSTEMS	90	30	5.1-5.15	5-01-5-14
	13	AIRCRAFT AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS PART-B	70	40	13.8 Up to Compass system (magnetic compass)	13-51-13-69
	13	AIRCRAFT AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS PART-C	90	30	13.4 Up to (ILS)	13-70-13-86
		TOTAL	250	100		
		THEORY + PRACTICAL	350			
5 <sup>TH</sup> SEMESTER	13	AIRCRAFT AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS PART-D	125	80	13.5,13.6,13.9,13.10	13-87-13-126
	13	AIRCRAFT AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS PART-E	125	20	13.4(MLS onwards), 13.20- 13.22	13-127-13-133
		TOTAL	250	100		
		THEORY + PRACTICAL	350			
6 <sup>TH</sup> SEMESTER	13	AIRCRAFT AEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS PART-F	90	45	13.3, 13-8	13-134-13-148
	14	PROPULSION	90	25	14.1-14.3	14-01-14-12
		TOTAL	180	70		
		THEORY + PRACTICAL	250			

MODULE	SUB- MODULE	LEVEL	HOURS ALLOTTED
3 ELECTRICAL FUNDAMENTALS	3.1 Electron Theory	1	2
	3.2 Static Electricity and Conduction	2	2
	3.3 Electrical Terminology	2	2
	3.4 Generation of Electricity	1	2
	3.5 DC Sources of Electricity	2	8
	3.6 DC Circuits	2	4
	3.7 Resistance/Resistor	2	6

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

	3.8 Power	2	2
	3.9 Capacitance/Capacitor	2	4
	3.10 Magnetism	2	4
	3.11 Inductance/Inductor	2	5
	3.12 DC Motor/Generator Theory	2	9
	3.13 AC Theory	2	5
	3.14 Resistive (R), Capacitive (C) and Inductive (L) Circuits	2	5
	3.15 Transformers	2	5
	3.16 Filters	1	2
	3.17 AC Generators	2	5
	3.18 AC Motors	2	8
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>80</b>
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>70</b>
<b>4 (ELECTRONICS FUNDAMENTAL)</b>	4.1.1 Semiconductors- Diodes	2	25
	4.1.2 Semiconductors- Transistors	2	15
	4.1.3 Semiconductors- Integrated Circuits	2	10
	4.2 Printed Circuit Boards	2	5
	4.3 Servomechanisms	2	15
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>70</b>
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>40</b>
<b>5 (DIGITAL TECHNIQUES ELECTRONIC INSTRUMENT SYSTEMS)</b>	5.1 Electronic Instrument Systems	3	2
	5.2 Numbering Systems	2	8
	5.3 Data Conversion	2	6
	5.4 Data Buses	2	6
	5.5 Logic Circuits	2	8
	5.6 Basic Computer Structure	2	5
	5.7 Microprocessors	2	1
	5.8 Integrated Circuits	2	3
	5.9 Multiplexing	2	3
	5.10 Fiber Optics	2	8
	5.11 Electronic Displays	2	5
	5.12 Electrostatic Sensitive Devices	2	5
	5.13 Software Management Control	2	5
	5.14 Electromagnetic Environment	2	5
	5.15 Typical Electronic/Digital Aircraft Systems	2	20

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)





# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>	<b>90</b>	
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>	<b>30</b>	
<b>6. (MATERIALS AND HARDWARE)</b>	6.1 Aircraft Materials — Ferrous	1	13
	6.2 Aircraft Materials — Non-Ferrous	1	7
	6.3 Aircraft Materials - Composite and Non- Metallic	2	5
	6.4 Corrosion	1	5
	6.5 Fasteners	2	20
	6.6 Pipes and Unions	2	4
	6.7 Springs	1	1
	6.8 Bearings	2	3
	6.9 Transmissions	2	6
	6.10 Control Cables	1	3
	6.11 Electrical Cables and Connectors	2	3
		<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>	<b>70</b>
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>	<b>00</b>	
<b>7A. (MAINTENANCE PRACTICES)</b>	7.1 Safety Precautions-Aircraft and Workshop	3	5
	7.2 Workshop Practices	3	5
	7.3 Tools	3	40
	7.4 Avionic General Test Equipment	3	5
	7.5 Engineering Drawings, Diagrams and Standards	2	10
	7.6 Fits and Clearances	1	5
	7.7 Electrical Wiring Interconnection System (EWIS)	3	5
	7.15 Welding, Brazing, Soldering and Bonding	2	5
	7.16 Aircraft Weight and Balance	2	10
	7.17 Aircraft Handling and Storage	2	20
	7.18 Disassembly, Inspection, Repair and Assembly Techniques	3	20
	7.19 Abnormal Events	2	5
	7.20 Maintenance Procedures	2	5
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>	<b>140</b>	
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>	<b>180</b>	
<b>8. (BASIC AERODYNAMICS)</b>	8.1 Physics of the Atmosphere	2	5
	8.2 Aerodynamics	2	25
	8.3 Theory of Flight	2	15
	8.4 Flight Stability and Dynamics	2	15
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>60</b>

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>00</b>
<b>9A. (HUMAN FACTORS)</b>	9.1 General	2	2
	9.2 Human Performance and Limitations	2	15
	9.3 Social Psychology	1	10
	9.4 Factors Affecting Performance	2	10
	9.5 Physical Environment	1	10
	9.6 Tasks	1	8
	9.7 Communication	2	5
	9.8 Human Error	2	15
	9.9 Hazards in the Workplace	2	5
		<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>	
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>00</b>
<b>10. (AVIATION LEGISLATION)</b>	10.1 Regulatory Framework	1	40
	10.2 CAR-66 Certifying Staff - Maintenance	2	20
	10.3 CAR-145 — Approved Maintenance Organizations	2	30
	10.4 Aircraft Operations	1	10
	10.5 Aircraft Certification	1	25
	10.6 CAR-M	2	20
	10.7 Applicable National and International Requirements	2	25
	10.8 Safety Management System	2	5
	10.9 Fuel Tank Safety	2	5
		<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>	
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>00</b>
<b>13. (AIRCRAFT AERODYNAMICS, STRUCTURES AND SYSTEMS)</b>	13.1 Theory of Flight	1	9
	13.2 Structures — General Concepts	2	2
	13.3 Auto flight (ATA 22)	3	50
	13.4 Communication/Navigation (ATA 23/34)	3	190
	13.5 Electrical Power (ATA 24)	3	70
	13.6 Equipment and Furnishings (ATA 25)	3	10
	13.7 Flight Controls (ATA 27)	2	7
	13.8 Instruments (ATA 31)	3	110
	13.9 Lights (ATA 33)	3	30
	13.10 On Board Maintenance Systems (ATA 45)	3	15
	13.11 Air Conditioning and Cabin Pressurization (ATA21)	2	14
	13.12 Fire Protection (ATA 26)	3	6

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

	13.13 Fuel Systems (ATA 28)	3	10	
	13.14 Hydraulic Power (ATA 29)	3	9	
	13.15 Ice and Rain Protection (ATA 30)	3	7	
	13.16 Landing Gear (ATA 32)	3	6	
	13.17 Oxygen (ATA 35)	3	5	
	13.18 Pneumatic/Vacuum (ATA 36)	3	4	
	13.19 Water/Waste (ATA 38)	2	1	
	13.20 Integrated Modular Avionics (ATA42)	3	10	
	13.21 Cabin Systems (ATA44)	3	10	
	13.22 Information Systems (ATA46)	3	5	
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>580</b>	
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>315</b>	
14. (PROPULSION)	14.1 Turbine Engines	1, 2	40	
	14.2 Engine Indicating Systems	2	40	
	14.3 Starting and Ignition Systems	2	10	
	<b>TOTAL THEORETICAL BASIC TRAINING HOURS</b>		<b>90</b>	
	<b>TOTAL IN-HOUSE PRACTICAL BASIC TRAINING HOURS</b>		<b>25</b>	

S/N	ATA	CAR-66 REF.	TASK NUMBER	BASIC PRACTICAL TASKS	PERFORMED ON	LEVEL	ALLOTTED HOURS
<b>MODULE 3 (ELECTRICAL FUNDAMENTALS)-PRACTICAL</b>							
1.	--	3.3	3-01	Measure the single phase, three phase, and DC Voltage by AMM/Multimeter.	Lab	2	1
2.	--	3.5	3-02	Connect the battery in series and parallel and measure the voltage by multimeter	Battery Cart	2	1
3.	--	3.5	3-03	Charge the single and multiple battery suitable charger	Lab	2	1
4.	--	3.5	3-04	Measure the Voltage by thermocouple with the simple experiment.	Lab	2	1
5.	--	3.6	3-05	Verify the ohm law with experiments.	Lab	2	1
6.	--	3.6	3-06	Verify the Kirchoff law with experiment.	Lab	2	1
7.	--	3.6	3-07	Perform the connection of appliances like, Switch, relay, shunt, bulb, ammeter, voltmeter, frequency meter, Fuse, circuit breaker, current limiter.	Lab	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

8.	--	3.7	3-08	Connect the resister in series, parallel and in combination and measure the value of resister through AMM/DMM. Compare the measured and calculated value.	Lab	2	1
9.	--	3.7	3-09	With the simple project verify the use of potentiometer and rheostat.	Lab	2	2
10.	--	3.7	3-10	Find out unknown resistance value by using Wheatstone Bridge	Lab	2	1
11.	--	3.7	3-11	With the simple project verify the use of VDR, and thermisters.	Lab	2	2
12.	--	3.9	3-12	Connect the capacitor in series, parallel and in combination and measure the value of capacitance through capacitor meter. Compare the measured and calculated value.	Lab	2	1
13.	--	3.9	3-13	Test the electrolyte capacitor for serviceability.	Lab	2	1
14.	--	3.11	3-14	Connect the inductor in series and parallel and measure the value of inductance through inductor meter. Compare the measured and calculated value	Lab	2	1
15.	--	3.11	3-15	Verify the of faradays law of electromagnetic Induction	Lab	2	1
16.	--	3.12	3-16	Perform the brush inspection of DC generator.	Lab	2	1
17.	--	3.12	3-17	Test the armature in Growler and through multimeter/test lamp	Lab	2	1
18.	--	3.12	3-18	Perform the Visual Inspection of DC Motor & Operate the DC motor.	Lab	2	1
19.	--	3.12	3-19	Perform the speed control of DC motor and measure the RPM of DC motor.	Lab	2	2
20.	--	3.12	3-20	Perform the direction reversing method of DC motor.	Lab	2	2
21.	--	3.12	3-21	Perform the Installation of Brush in DC motor & DC Generator.	Lab	2	2
22.	--	3.12	3-22	Perform the Visual Inspection of Starter Generator and check for brush wear and	Lab	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				replace if damaged one.			
23.	--	3.12	3-23	Measure field and armature resistance of DC machines	Lab	2	2
24.	--	3.12	3-24	Test for continuity and insulation resistance of DC machine	Lab	2	2
25.	--	3.12	3-25	Practice dismantling and assembling in DC Motor/ Generator	Lab	2	2
26.	--	3.13	3-26	Measure three phase current, voltage, power and power factor in 3 phase circuit with lamp load	Lab	2	2
27.	--	3.13	3-27	Ascertain use of neutral by identifying wires of a 3-phase 4 wire system and find the phase sequence using phase sequence meter	Lab	2	2
28.	--	3.13	3-28	Determine effect of broken neutral wire in three phase four wire system	Lab	2	2
29.	--	3.13	3-29	Perform the star and delta wiring.	Lab	2	2
30.	--	3.13	3-30	Determine the relationship between Line and Phase values for star and delta connections	Lab	2	2
31.	--	3.13	3-31	Perform the interlocking connection of power supply	Lab	2	2
32.	--	3.13	3-32	Control the intensity of light by simple circuit.	Lab	2	2
33.	--	3.14	3-33	Measure the power by using watt meter and VAR meter	Lab	2	2
34.	--	3.15	3-34	Perform the use of voltage transformer (step up and step down) by simple circuit	Lab	2	2
35.		3.15	3-35	Perform the use of current transformer by using simple circuit.	Lab	2	2
36.	--	3.15	3-36	Perform the testing of transformers (Current and Voltage)	Lab	2	2
37.	--	3.15	3-37	Measure the input and output Voltage of Variac.	Lab	2	2
38.	--	3.15	3-38	Fabricate the Transformer rectifier unit of 12V DC/24 V DC.	Lab	2	1
39.	--	3.16	3-39	Fabricate the RC, LC, RLC filter and utilize in filtration purpose in TRU.	Lab	1	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

40.	--	3.18	3-40	Operate the AC motors & Perform reversing of direction of rotation of single phase and three phase Induction AC motors.	Lab	2	1
41.	--	3.18	3-41	Perform the speed control of single phase and three phase Induction AC Motors.	Lab	2	1
42.	--	3.18	3-42	Connect the single phase and three phase synchronous motor with starter.	Lab	2	1
43.	--	3.18	3-43	Perform the connection of push to start and push to stop for electrical appliances light motors and lights	Lab	2	1
44.	--	-----	3-44	Perform the operation of timer relay.	Lab	2	1
45.	--	-----	3-45	Demonstrate the operation of overload sensor with experiments.	Lab	2	2
46.	-----	-----	3-46	Demonstrate the operation of overvoltage and under voltage relay with experiments.	Lab	2	2

TOTAL IN-HOUSE PRACTICAL HOURS 70

### MODULE- 4(ELECTRONICS FUNDAMENTAL)-PRACTICAL

47.	--	4.1	4-01	Identify the common electronics components/Semiconductor devices and perform its testing by DMM/AMM.	LAB	2	2
48.	--	4.1.1	4-02	Measure the voltage and current through a diode in a circuit and verify its forward characteristics	LAB	2	2
49.	--	4.1.1	4-03	Perform the forwards and reverse bias of PN Junction through simple circuit	LAB	2	2
50.	--	4.1.1	4-04	Determine the load resistance for LEDs across 5V, 12 V DC power supply and operate the LED.	LAB	2	2
51.	--	4.1.1	4-05	To plot V-I Characteristics of Zener Diode.	LAB	2	2
52.	--	4.1.1	4-06	Construct a simple voltage regulator by using Zener Diode.	LAB	2	2
53.	--	4.1.1	4-07	Connect the varistor diode as a switching device to illuminate a load lamp.	LAB	2	2
54.	--	4.1.1	4-08	Construct a circuit to switch a buzzer lamp load using photo diode.	LAB	2	2
55.	--	4.1.1	4-09	Fabricate the thirster as a switching circuit	LAB	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				for load operation.			
56.	--	4.1.1	4-10	Fabricate the half wave, full wave bridge rectifier for single phase and three phase input.	LAB	2	2
57.	--	4.1.1	4-11	Fabricate the voltage doubler and tripler using simple circuit	LAB	2	2
58.	--	4.1.1	4-12	Fabricate the simple clipper and clamper circuit using diode.	LAB	2	2
59.	--	4.1.2	4-13	To plot the Characteristics of a BJT in Common Emitter Configuration.	LAB	2	2
60.	--	4.1.2	4-14	Construct & test transistor as a switch.	LAB	2	2
61.	--	4.1.2	4-15	Construct and test transistor-based relay control circuit.	LAB	2	2
62.	--	4.1.2	4-16	To study the Characteristics of a Junction Field Effect Transistor (JFET).	LAB	2	2
63.	--	4.1.2	4-17	Construct and test an amplifier circuit	LAB	2	2
64.	--	4.1.2	4-18	Construct a stable multivibrator using transistor.	LAB	2	2
65.	--	4.1.3	4-19	Construct and test inverting and non-inverting amplifier using OP AMPs	LAB	2	2
66.	--	4.3	4-20	Perform the connection of DC synchro (transmitter & receiver) and AC synchro and measure the angular deflection.	LAB	2	2

TOTAL IN-HOUSE PRACTICAL HOURS 40

### MODULE-5 (DIGITAL TECHNIQUES/ ELECTRONIC INSTRUMENT SYSTEMS)-PRACTICAL

67.	--	5.3	5-01	Fabricate the simple circuit for Analogue to Digital converter	LAB	2	2
68.	--	5.3	5-02	Fabricate the simple circuit for digital to analogue converter	LAB	2	2
69.	--	5.5	5-03	Fabricate the all Verify the truth table for universal logic Gate	LAB	2	2
70.	--	5.5	5-04	Fabricate the all Verify the truth table for universal logic Gate	LAB	2	2
71.	--	5.5	5-05	Perform the use of logic probe	LAB	2	2
72.	--	5.6	5-06	Show basic parts of computer and showing different parts inside CPU like hard-disk,	LAB	2	2

SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				primary storage, motherboard, I/o devices.			
73.	--	5.7	5-07	Demonstrate the Microprocessor using IC 8085	LAB	2	2
74.	--	5.8	5-08	Fabricate the simple encoder circuit	LAB	2	2
75.	--	5.8	5-09	Fabricate the simple decoder circuit	LAB	2	2
76.	--	5.9	5-10	Verify of truth table of multiplexer and demultiplexer using 74151 and 74154 IC	LAB	2	2
77.	--	5.10	5-11	Perform the cutting, striping of fiber optic cable and termination with the connectors.	LAB	2	2
78.	--	5.12	5-12	Perform e the handling and transportation of ESDS items	LAB	2	2
79.	--	5.12	5-13	Perform the method of protection of aircraft avionics from lightning strikes /HIRF	LAB	2	2
80.	--	5.15	5-14	Set the frequency in function generator of different amplitude & Study of CRO and to find the Amplitude and Frequency using CRO. To measure the Unknown Frequency & Phase difference using CRO	LAB	2	4
TOTAL IN-HOUSE PRACTICAL HOURS							30
<b>MODULE-7A (MAINTENANCE PRACTICE)-PRACTICAL</b>							
81.	--	7.1	7A-01	Perform the mock drill for operation of Fire Extinguisher. Perform The Mock Drill for First AID in the event of Electrical Shock.	Lab	3	2
82.	--	7.2	7A-02	Perform care procedure of hand tools a. Care of Hammers. b. Care of Screwdrivers. c. Care of Wrenches. d. Care of Pliers and Tongs. e. Care of Chisels. f. Care of Punches. g. Care of Files. h. Care of Taps. i. Care of Dies. j. Care of Dividers & Callipers. k. Care of Micrometres. l. Care of Rules.	Tool Crib	3	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)





# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01		
ISSUE NUMBER	02	January 2023	
REVISION NUMBER & DATE	00		

				m. Care of Scriber.			
83.	--	7.3	7A-03	To make a square fit from the given mid steel pieces	Gen Engg. W/S	3	2
84.	--	7.3	7A-04	Use the plan and Philips screw drivers, Bits in combination of bit holders and ratchet, extension bar to open and tight the panel mounted screws.	Gen Engg. W/S	3	1
85.	--	7.3	7A-05	Open and tight the panel mounted screws by using speed handle, bits and holder.	Gen Engg. W/S	3	1
86.	--	7.3	7A-06	Open the panel mounted screw by using power operated screw drivers.	Gen Engg. W/S	3	1
87.	--	7.3	7A-07	Install and remove the nut and bolts assembly by using the combination spanners & adjustable spanners.	Gen Engg. W/S	3	1
88.	--	7.3	7A-08	Install and remove the nut and bolts assembly by using sockets, extension, ratchet, T handle, universal joint, expanders& reducers.	Gen Engg. W/S	3	1
89.	--	7.3	7A-09	Install and remove the nut and bolts assembly by using offset and offset socket wrenches.	Gen Engg. W/S	3	1
90.	--	7.3	7A-10	Remove and installed the set head screw or socket head screws.	Gen Engg. W/S	3	1
91.	--	7.3	7A-11	Grip the job at C clamp, tool maker clamp and grip vies pliers and remove the damaged exposed screw by using grip visepliers.	Gen Engg. W/S	3	1
92.	--	7.3	7A-12	Perform the wire locking by using locking wire pliers	Gen Engg. W/S	3	1
93.	--	7.3	7A-13	Set and use the given torque value of torque in different units in torque wrenches.	Gen Engg. W/S	3	1
94.	--	7.3	7A-14	Use the screw extractor to remove the damage screw	Gen Engg. W/S	3	1
95.	--	7.3	7A-15	Remove and install the stud from assembly part.	Gen Engg. W/S	3	1
96.	--	7.3	7A-16	Use the crowfoot wrench and hook spanners	Gen Engg.	3	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				to remove and installed nut and bolt from the assembly part.	W/S		
97.	--	7.3	7A-17	Remove and installed the circlip by using the circlip pliers.	Gen Engg. W/S	3	1
98.	--	7.3	7A-18	Use the impact drivers to break loose a stubborn fastener.	Gen Engg. W/S	3	1
99.	--	7.3	7A-19	Perform the measurements by using the steel rule (metric and Inches).	Gen Engg. W/S	3	1
100.	--	7.3	7A-20	Perform the measurements by using the outside micrometer (imperial and metric).	Gen Engg. W/S	3	1
101.	--	7.3	7A-21	Perform the measurements by using the Vernier callipers (imperial and metric).	Gen Engg. W/S	3	1
102.	--	7.3	7A-22	Perform the measurements by using the Vernier height gauge.	Gen Engg. W/S	3	1
103.	--	7.3	7A-23	Perform the measurements by using the Vernier depth gauge.	Gen Engg. W/S	3	1
104.	--	7.3	7A-24	Perform the measurements by using the Telescoping gauge.	Gen Engg. W/S	3	1
105.	--	7.3	7A-25	Perform the measurements by using the small hole gauge.	Gen Engg. W/S	3	1
106.	--	7.3	7A-26	Perform the measurements by using the dial test indicator (imperial and metric).	Gen Engg. W/S	3	1
107.	--	7.3	7A-27	Perform the angle measurements by using the precession bevel protector.	Gen Engg. W/S	3	1
108.	--	7.3	7A-28	Perform measurement by using the combination set.	Gen Engg. W/S	3	1
109.	--	7.3	7A-29	Measure the inside diameter of a job by using the inside callipers	Gen Engg. W/S	3	1
110.	--	7.3	7A-30	Measure the outside diameter of a job by using the outside callipers	Gen Engg. W/S	3	1
111.	--	7.3	7A-31	Transfer the measurement from outside to inside callipers	Gen Engg. W/S	3	1
112.	--	7.3	7A-32	Measure the distance and draw an arc & circle by using the dividers.	Gen Engg. W/S	3	1
113.	--	7.3	7A-33	Draw parallel lines by using the jenny callipers& find the centre of round bars by	Gen Engg. W/S	3	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				using jenny callipers.			
114.	--	7.3	7A-34	Check the hole of exact size by using Ring gauge.	Gen Engg. W/S	3	1
115.	--	7.3	7A-35	Check the accuracy of holes by using plug gauge	Gen Engg. W/S	3	1
116.	--	7.3	7A-36	Check the size of the drill bits by using the drill gauge	Gen Engg. W/S	3	1
117.	--	7.3	7A-37	Measure the clearance or gaps by using feeler or thickness gauge	Gen Engg. W/S	3	1
118.	--	7.3	7A-38	Check the inside and outside radius of a component by using a fillet or radius gauge.	Gen Engg. W/S	3	1
119.	--	7.3	7A-39	Check the pitch of a thread by using screw pitch gauge	Gen Engg. W/S	3	1
120.	--	7.3	7A-40	Perform the measurement by use of Go and not go gauge	Gen Engg. W/S	3	1
121.	--	7.3	7A-41	Check the wire size by using the SWG/AWG.	Gen Engg. W/S	3	1
122.	--	7.3	7A-42	Check the flatness of surface by using inclinometer	Gen Engg. W/S	3	1
123.	--	7.6	7A-43	Drill holes as per the given size by using of pillar and sensitive drill machine.	Gen Engg. W/S	3	1
124.	--	7.6	7A-44	Perform the reaming operation to enlarge the drilled holes to accurate dimensions.	Gen Engg. W/S	3	1
125.	--	7.6	7A-45	Cut the internal screw thread on drilled holes by using the taps.	Gen Engg. W/S	3	1
126.	--	7.6	7A-46	Cut the external screw threads on round bar metals by using the dies.	Gen Engg. W/S	3	1
127.	--	7.3	7A-47	Perform the grinding operation on a specimen job	Gen Engg. W/S	3	1
128.	--	7.3	7A-48	Perform the buffing operation on a specimen job	Gen Engg. W/S	3	1
129.	--	7.3	7A-49	Cut the job peace by Powered hacksaw.	Gen Engg. W/S	3	1
130.	--	7.3	7A-50	Cut the metal sheet by using Sheet metal guillotine/hand shear machine.	Gen Engg. W/S	3	1
131.	--	7.3	7A-51	Perform the turning operation for a job on	Gen Engg.	3	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				lathe machine.	W/S		
132.	--	7.6	7A-52	Perform the Counter boring, spot facing and countersinking operation.	Gen Engg. W/S	3	1
133.	--	7.6	7A-53	To cut a spur gear tooth on a given circular blank by gear cutting processes on horizontal milling machine.	Gen Engg. W/S	3	1
134.	--	7.15	7A-54	Perform electric arc welding and make the different joints.	Gen Engg. W/S	3	1
135.	--	7.15	7A-55	Perform TIG welding and make the different joints.	Gen Engg. W/S	3	1
136.	--	7.15	7A-56	Perform the oxy Acetylene welding by using different flame.	Gen Engg. W/S	3	1
137.	--	7.15	7A-57	Perform the spot welding on a job peace.	Gen Engg. W/S	3	1
138.	--	7.7	7A-58	Use multimeter to meters to measure AC and DC volts, amps and resistance.	Electrical Lab	3	1
139.	--	7.7	7A-59	Check an aircraft electrical circuit for continuity in conjunction with an electrical wiring diagram	Electrical Lab	3	1
140.	--	7.7	7A-60	Check the insulation resistance by using megger	Electrical Lab	3	1
141.	--	7.7	7A-61	Perform wire splicing.	Electrical Lab	3	1
142.	--	7.7	7A-62	Insert / extract electrical inserts (pins) in a variety of electrical connectors.	Electrical Lab	3	1
143.	--	7.7	7A-63	Perform the tying and lacing of aircraft wire bundle.	Electrical Lab	3	1
144.	--	7.7	7A-64	Perform crimping to prepare cable ends or plug / socket terminals.	Electrical Lab	3	1
145.	--	7.7	7A-65	Perform cutting, stripping of coaxial cable and crimping of BNC connector with co-axial cable.	Electrical Lab	3	1
146.	--	7.7	7A-66	Find out the cable length, amperage, voltage and size of the cables by referring charts and identification of codes.	Electrical Lab	3	1
147.	--	7.7	7A-67	Measure the resistance of bonding jumpers	Electrical	3	1

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				by using mill ohmmeter.	Lab		
148.	--	7.7	7A-68	Perform the electrical wire and component soldering.	Electrical Lab	3	1
149.	--	7.8	7A-69	Perform the riveting in panel by use of hand riveter	LAB	2	5
150.	--	7.8	7A-70	Perform the riveting in panel by use of pneumatic hammer.	LAB	2	5
151.	--	7.8	7A-71	Perform of the inspection of Riveted Joints	LAB	2	1
152.	--	7.9	7A-72	Perform tube cutting & tube bending by using the hand tube bender as per given dimensions.	LAB	2	2
153.	--	7.9	7A-73	Perform the tube flaring practice single and double flare method	LAB	2	2
154.	--	7.9	7A-74	Perform the tube beading practice to join the two tube	LAB	2	2
155.	--	7.9	7A-75	Perform the tube beading practices to join the rigid and flexible hoses.	LAB	2	2
156.	--	7.9	7A-76	Remove and installed the flare and flameless pipelines and inspect the pipelines, fitting and sleeve and B nuts.	LAB	2	2
157.	--	7.9	7A-77	Perform the tube/flexible hose Installation, Inspection practice.	LAB	2	2
158.	--	7.9	7A-78	Fabricate the flexible hose for flare and flare less fittings.	Lab	2	2
159.	--	7.10	7A-79	Measure the dimensions of coils springs perform the visual Inspection of springs	LAB/ AIRCRFAT	2	2
160.	--	7.11	7A-80	Perform cleaning, lubrication and inspection of bearings	LAB	2	2
161.	--	7.12	7A-81	Inspect and lubricate the screw jacks.	LAB/ AIRCRFAT	2	2
162.	--	7.12	7A-82	Inspect the levers, push-pull rod, belts, pulleys, chain and sprockets.	LAB/ AIRCRFAT	2	2
163.	--	7.12	7A-83	Check backlash of gears	LAB/ AIRCRFAT	2	2
164.	--	7.13	7A-84	Perform the control cable swaging with end fitting	LAB	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

165.	--	7.13	7A-85	Perform the Inspection and tension testing of control cable	LAB	2	2
166.	--	7.13	7A-86	Install and remove the turnbuckle and perform the locking practice	LAB	2	2
167.	--	7.13	7A-87	Perform the inspection of flexible control cable.	LAB	2	2
168.	--	7.14	7A-88	Make the panel by use of carbon fiber of Given Thickness.	AIRCRAFT	2	2
169.	--	7.16	7A-89	Demonstration of the leveling of an aircraft	AIRCRAFT	2	2
170.	--	7.16	7A-90	Prepare the aircraft for weighing	AIRCRAFT	2	6
171.	--	7.16	7A-91	Practice the load and trim sheet	AIRCRAFT	2	2
172.	--	7.16	7A-92	Perform extreme load condition check	AIRCRAFT	2	2
173.	--	7.17	7A-93	Perform jacking of nose or tail wheel	AIRCRAFT	2	2
174.	--	7.17	7A-94	Perform jacking of complete aircraft	AIRCRAFT	2	2
175.	--	7.17	7A-95	Perform the use of chocks, sling ,trestle, ladder and other ground handling equipment	AIRCRAFT	2	2
176.	--	7.17	7A-96	Parking, mooring, chocking and grounding of aircraft	AIRCRAFT	2	2
177.	--	7.17	7A-97	Perform long time parking	AIRCRAFT	2	2
178.	--	7.17	7A-98	Perform the towing of aircraft	AIRCRAFT	2	2
179.	--	7.17	7A-99	Check the tire pressure and charge the hydraulic fluid in to the tank/reservoir of brakes	AIRCRAFT	2	2
180.	--	7.17	7A-100	Connect and use external electrical power in the aircraft	AIRCRAFT	2	2
181.	--	7.17	7A-101	Perform the fueling and defueling of aircraft	AIRCRAFT	2	2
182.	--	7.17	7A-102	Perform the de-icing operation	AIRCRAFT	2	2
183.	--	7.17	7A-103	Perform the Marshalling of fixed wing and Rotary wing.	AIRCRAFT	2	2
184.	--	7.17	7A-104	Perform the general Inspection of servicing of GSE like compressor, battery cart, GPU, Hydraulic Cart, Jack, trestle, Mobile Gantry etc.	AIRCRAFT	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

185.	--	7.18	7A-105	Perform the Dy. Penetrate color contrast on sample Job	LAB	3	2
186.	--	7.18	7A-106	Perform the Florescent Penetrate Inspection and Fluorescent Magnetic particle NDT method for flaw detection on sample job.	LAB	3	2
187.	--	7.18	7A-107	Perform the Magnetic particle NDT method for flaw detection.	LAB	3	2
188.	--	7.19	7A-108	Perform the special inspection schedule of heavy landing, lightening strike, HIRF.	LAB	3	2
189.	--	7.20	7A-109	Fill the aircraft log book after work	AIRCRAFT	2	2
190.	--	7.20	7A-110	Fill the engine log book after work	AIRCRAFT	2	2
191.	--	7.20	7A-111	Fill the propeller log book aircraft work	AIRCRAFT	2	2
192.	--	7.20	7A-112	Fill the radio apparatus log book after work	AIRCRAFT	2	2
193.	--	7.20	7A-113	Fill the JLB, FRB and technical log for flight	AIRCRAFT	2	2
194.	--	7.20	7A-114	Raised the work order/call out for maintenance activity.	AIRCRAFT	2	2
195.	--	7.20	7A-115	Fill the CRS and CA form 1 after maintenance work	AIRCRAFT	2	2
196.	--	7.20	7A-116	Practice the filling of all Maintenance tags	AIRCRAFT	2	2
197.	--	7.20	7A-117	Inspect the bonded and quarantine store as per check list	Lab	2	1
198.	--	7.20	7A-118	Perform the Daily Inspection of Learjet 25 aircraft.	AIRCRAFT	2	2
199.	--	7.20	7A-119	Identify the life limited component by referring the part number in Learjet 25 aircraft	AIRCRAFT	2	2
TOTAL IN-HOUSE PRACTICAL HOURS							180
<b>MODULE-13 (AIRCRAFTAEROPLANE AERODYNAMICS, STRUCTURES AND SYSTEMS)-PRACTICAL</b>							
200.	6	13.2	13-1	Locate the frame of Learjet 25 Aircraft through fuselage station number system.	Aircraft	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalasur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January 2023
REVISION NUMBER & DATE	00	

201.	6	13.2	13-2	Designate the water line in the Learjet 25 Aircraft.	Aircraft	2	2
202.	6	13.2	13-3	Designate the Buttock line in the Learjet 25 Aircraft.	Aircraft	2	2
203.	6	13.2	13-4	Designate the Wing station in the Learjet 25 Aircraft.	Aircraft	2	2
204.	11	13.2	13-5	Perform the external placarding of Learjet 25 aircraft	Aircraft	2	2
205.	12	13.2	13-6	Perform the visual inspection of drain and vent line and perform the servicing.	Aircraft	2	2
206.	23	13.2	13-7	Perform the visual inspection of Static discharger wicks and perform removal and fitment of Static discharger wicks.	Aircraft	2	2
207.	23	13.2	13-8	Perform the functional test of static discharger wicks	Aircraft	2	2
208.	-----	13.2	13-9	Inspect the bonding jumper, clean the hardware and check the resistance of bonding jumper.	Aircraft	2	2
209.	56	13.2	13-10	Perform the cleaning of Acrylic Windows	Aircraft	2	2
210.	29	13.14	13-11	Locate the component and perform visual inspection of all hydraulic system components of Learjet 25 Aircraft for security of attachments, leaks and damage.	Aircraft	3	2
211.	29	13.14	13-12	Depressurize Hydraulic System for system servicing.	Aircraft	3	2
212.	29	13.14	13-13	Pressurize the Hydraulic Accumulator with dry air or nitrogen of 800 PSI.	Aircraft	3	2
213.	29	13.14	13-14	Service the Hydraulic Reservoir by Hand for correct level of fluid (MIL-PRF-5606 -H)	Aircraft	3	2
214.	30	13.15	13-15	Locate the component for bleed air wing leading edge anti-icing system and perform the visual Inspection.	Aircraft	3	2
215.	30	13.15	13-16	Locate the component for Engine nacelle anti icing system and perform the visual Inspection and operational check.	Aircraft	3	2
216.	30	13.15	13-17	Perform the Nacelle Anti-ice Heating	Aircraft	3	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)





# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				Elements Resistance Check			
217.	30	13.15	13-18	Locate the component of Alcohol Windshield anti icing system and perform the general visual inspection and servicing.	Aircraft	3	2
218.	32	13.16	13-19	Locate the main landing gear Hydraulic Components and perform visual inspection for security and attachments.	Aircraft	3	2
219.	32	13.16	13-20	Check the shock strut for proper extension and service the strut with MIL-PRF-5606 (H) and dry air or nitrogen.	Aircraft	3	2
220.	32	13.16	13-21	Clean and Lubricate main Landing gear lubrication points.	Aircraft	3	2
221.	32	13.16	13-22	Clean and Lubricate main Nose gear, Door (inboard and out board) lubrication points	Aircraft	3	2
222.	32	13.16	13-23	Perform the removal and installation of main wheel and Nose Wheel.	Aircraft	3	2
223.	32	13.16	13-24	Locate the component of antiskid system and perform the detail visual Inspection.	Aircraft	3	2
224.	32	13.16	13-25	Inspect Brakes for Excessive Wear	Aircraft	3	2
225.	32	13.16	13-26	Perform the Bleeding of the brake	Aircraft	3	2
226.	32	13.16	13-27	Perform operation check of brakes and apply and release the parking brake	Aircraft	3	2
227.	32	13.16	13-28	Perform the extension and retraction test of landing gear.	Aircraft	3	2
228.	32	13.16	13-29	Locate the component of emergency extension of landing gear and perform the visual inspection.	Aircraft	3	2
229.	35	13.17	13-30	Locate the oxygen system component and perform the detail visual inspection.	Aircraft	3	2
230.	35	13.17	13-31	Perform the removal and fitment of oxygen cylinder.	Aircraft	3	2
231.	35	13.17	13-32	Perform the removal and installation and cleaning of crew oxygen masks.	Aircraft	3	2
232.	35	13.17	13-33	Perform the flow Detector and Hose Replacement for crew oxygen mask.	Aircraft	3	2
233.	35	13.17	13-34	Perform the cleaning of passenger oxygen	Aircraft	3	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				masks.			
234.	36	13.18	13-35	Perform the emergency air bottle removal and installation.	Aircraft	3	2
235.	21	13.11	13-36	Locate the ACM & VCM air conditioning component and pressurisation component and perform the visual inspection for mounting and security and attachment.	Aircraft/ Airframe Lab	3	2
236.	21	13.11	13-37	Inspect & Replace the belt of VCM compressor	Aircraft/ Airframe Lab	3	2
237.	21	13.11	13-38	Charge the refrigeration system with Freon	Aircraft/ Airframe Lab	3	2
238.	21	13.11	13-39	Perform the removal and installation of Blower & Evaporation	Aircraft/ Airframe Lab	3	2
239.	25	13.6	13-40	Perform the inspection cleaning& removal and installation of passenger seats	Aircraft	3	2
240.	26	13.12	13-41	Locate the component of fire engine fire detection and extinguishing system and perform visual inspection.	Aircraft	3	2
241.	26	13.12	13-42	Perform the fire detection test.	Aircraft	3	2
242.	26	13.12	13-43	Remove the fire extinguisher bottle and perform weight check.	Aircraft	3	2
243.	26	13.12	13-44	Perform the Functional Test of Engine Fire Extinguishing System	Aircraft	3	2
244.	27	13.7	13-45	Perform the visual inspection, operation and lubrication of primary flight control surface.	Aircraft	3	2
245.	27	13.7	13-46	Perform the operation check of Flap and visually inspect the flap system for damage, deformation, lubricate the flap as per lubricating schedule.	Aircraft	3	2
246.	27	13.7	13-47	Perform the removal and installation of Flap	Aircraft	3	2
247.	27	13.7	13-48	Perform the operation check of spoilers and visually inspect the spoiler's system components for damage, deformation,	Aircraft	3	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				lubricate the spoilers as per lubricating schedule.			
248.	27	13.7	13-49	Check the aileron, rudder trim tab operational check and perform the removal installation of actuator for servicing.	Aircraft	3	2
249.	27	13.7	13-50	Perform the removal Installation of all access panels.	Aircraft	3	2
250.	31	13.8	13-51	Perform the Power on the Aircraft	Aircraft	3	2
251.	31	13.8	13-52	Perform the leak test of pitot static system	Aircraft	3	2
252.	31	13.8	13-53	Associated with Cleaning of Instrument Glass Lenses of Learjet 25 aircraft cockpit Instruments.	Aircraft	3	2
253.	31	13.8	13-54	Perform operational test of heater of Pitot Probe, Static Probe, and AoA Probe.	Aircraft	3	2
254.	31	13.8	13-55	Perform glass cleaning of all cockpit Instruments.	Aircraft	3	2
255.	31	13.8	13-56	Inspect the Drain of pitot and static line and perform the general servicing.	Aircraft	3	2
256.	31	13.8	13-57	Perform the removal and fitment of pitot Probe	Aircraft	3	2
257.	31	13.8	13-58	Energize the Servo Altimeter in aircraft.	Aircraft	3	2
258.	31	13.8	13-59	Perform removal and installation of mach switch	Aircraft	3	2
259.	31	13.8	13-60	Perform removal and fitment of encoding/servo altimeter, altitude alerter	Aircraft	3	2
260.	31	13.8	13-61	Perform the removal and fitment of SDC unit	Aircraft	3	2
261.	31	13.8	13-62	Perform the removal and fitment of magnetic compass	Aircraft	3	2
262.	31	13.8	13-63	Perform the Magnetic Compass Compensation	Aircraft	3	2
263.	31	13.8	13-64	Perform power check of Turn and bank Indicator	Aircraft	3	2
264.	31	13.8	13-65	Perform power on Check of IVSI	Aircraft	3	2
265.	31	13.8	13-66	Perform the removal and fitment of Clock	Aircraft	3	2
266.	31	13.8	13-67	Perform the removal and fitment of AOA and Flap position Indicator and Transmitter	Aircraft	3	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

267.	31	13.8	13-68	Adjust the potentiometer for Aileron Trim tab.	Aircraft	3	2
268.	31	13.8	13-69	Perform the removal and fitment of FQIS transmitter	Aircraft	3	4
269.	23	13.4	13-70	Associated with Antenna testing	Aircraft	3	1
270.	23	13.4	13-71	Fabricate antenna Co-axial cable of required length and specification.	Aircraft	3	1
271.	23	13.4	13-72	Perform removal and fitment of antenna (VHF)	Aircraft	3	2
272.	23	13.4	13-73	Locate the VHF communication trans receiver, control panel, antennae and perform the removal and fitment.	Aircraft	3	2
273.	23	13.4	13-74	Locate the HF communication trans receiver, control panel, antenna and perform the removal and fitment	Aircraft	3	2
274.	23	13.4	13-75	Remove and install and test speaker	Aircraft	3	2
275.	23	13.4	13-76	Perform inspection of pilot set	Aircraft	3	1
276.	23	13.4	13-77	Practice the frequency entering in communication control panel	Aircraft	3	1
277.	23	13.4	13-78	Perform the removal and fitment of Audio Select panel	Aircraft	3	2
278.	23	13.4	13-79	Measure the SWR and Power of Transmitter	Aircraft	3	2
279.	23	13.4	13-80	Locate the of ELT, antenna, remote switch and perform the removal and fitment	Aircraft	3	2
280.	23	13.4	13-81	Perform the replacement of ELT battery	Aircraft	3	2
281.	34	13.4	13-82	Perform the removal and fitment of Navigation receiver.	Aircraft	3	2
282.	34	13.4	13-83	Perform the removal and fitment of primary glide slop antenna.	Aircraft	3	2
283.	34	13.4	13-84	Perform the removal and fitment marker beacon antenna and perform the operation check of marker beacon light.	Aircraft	3	2
284.	34	13.4	13-85	Locate the ADF receiver, antanne and control panel and perform the removal and fitment.	Aircraft	3	2
285.	34	13.4	13-86	Perform the removal and fitment of CVR and its control panel.	Aircraft	3	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

286.	24	13.5	13-87	Perform the Battery installation and removal	AIRCRAF T	3	2
287.	24	13.5	13-88	Perform the Starter Generator Removal and fitment	AIRCRAF T	3	2
288.	24	13.5	13-89	Perform Removal and Installation of Voltage Regulator and its base	AIRCRAF T	3	2
289.	24	13.5	13-90	Perform the Starter-Generator Brush Wear Check	AIRCRAF T	3	2
290.	24	13.5	13-91	Perform the Removal and fitment of on CBs Panel.	AIRCRAF T	3	2
291.	24	13.5	13-92	Perform operational check of DC power distribution system.	AIRCRAF T	3	2
292.	24	13.5	13-93	Perform the operation check of AC power	AIRCRAF T	3	2
293.	24	13.5	13-94	Associated with Charging of the Lead acid battery	LAB	3	2
294.	24	13.5	13-95	Associated with the Capacity test of Aircraft battery	LAB	3	2
295.	24	13.5	13-96	Perform the Cleaning of NiCad battery cell and connectors.	LAB	3	2
296.	24	13.5	13-97	Prepare the electrolyte of correct specific gravity	LAB	3	2
297.	24	13.5	13-98	Perform deep cycling of NiCad battery	LAB	3	2
298.	24	13.5	13-99	Perform the maintenance of battery sump Jar	AIRCRAF T	3	2
299.	24	13.5	13-100	Install the battery ventilation system	AIRCRAF T	3	2
300.	24	13.5	13-101	Associated with Trouble Shooting if AC VOLTMETER read NO VOLTAGE.	AIRCRAF T	3	2
301.	24	13.5	13-102	Associated with Trouble Shooting if BATTERY SWICH SET TO ON, VOLTMETER INDICATES ZERO VOLTAGE.	AIRCRAF T	3	2
302.	24	13.5	13-103	Perform Inverter Removal and Installation	AIRCRAF T	3	2
303.	24	13.5	13-104	Perform the Inverter Power Relays removal and fitment	AIRCRAF T	3	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January 2023
REVISION NUMBER & DATE	00	

304.	24	13.5	13-105	Perform the fuse replacement and testing	AIRCRAF T	3	2
305.	24	13.5	13-106	Perform replacement of current limiter and testing	AIRCRAF T	3	2
306.	24	13.5	13-107	Associated with external power receptacle removal and fitment and cleaning	AIRCRAF T	3	2
307.	33	13.5	13-108	Replace landing Light and perform operational Check.	Aircraft	3	2
308.	33	13.5	13-109	Replace navigation Light & perform the operational check.	Aircraft	3	2
309.	33	13.5	13-110	Replace Taxing light and perform the operational check.	Aircraft	3	2
310.	33	13.5	13-111	Replace anti-collision light and perform the operation check.	Aircraft	3	2
311.	33	13.5	13-112	Replace entrance, No-smoking, fasten seat light and perform the operation check.	Aircraft	3	2
312.	33	13.5	13-113	Replace cabin light and perform the operational check.	Aircraft	3	2
313.	33	13.5	13-114	Replace cockpit light and annunciator light and perform operational check.	Aircraft	3	2
314.	24	13.5	13-115	Perform removal and fitment of emergency power Unit.	Aircraft	3	2
315.	24	13.5	13-116	Perform visual inspection of cooling duct of starter generator and associated in removal and fitment.	Aircraft	3	2
316.	24	13.5	13-117	Perform insulation check of aircraft wire bundle.	Aircraft	3	2
317.	24	13.5	13-118	Perform the removal & fitment of VCM motor	Aircraft	3	2
318.	24	13.5	13-119	Perform removal & fitment of Switch	Aircraft	3	2
319.	24	13.5	13-120	Perform removal, fitment and testing of overload sensor	Aircraft	3	2
320.	24	13.5	13-121	Perform generator over heat detector removal and fitment	Aircraft	3	2
321.	24	13.5	13-122	Perform Battery Temperature Indicator Operational Check	Aircraft	3	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January 2023
REVISION NUMBER & DATE	00	

322.	24	13.5	13-123	Perform Functional Test of Thermistor	Aircraft	3	2
323.	24	13.5	13-124	Remove and install battery charging bus	Aircraft	3	2
324.	24	13.5	13-125	Perform Operational Check of right Main Bus	Aircraft	3	2
325.	24	13.5	13-126	Perform Operational Check of left main Bus	Aircraft	3	2
326.	34	13.4	13-127	Identify the DME receiver, interrogator, Control panel and Indication and perform the removal and fitment.	Aircraft	3	3
327.	34	13.4	13-128	Locate the ATC transponder, Antenna and control unit and perform removal and fitment.	Aircraft	3	3
328.	34	13.4	13-129	Locate the GPS system components and perform its removal and fitment.	Aircraft	3	3
329.	34	13.4	13-130	Locate the radio altimeter system component and perform removal and fitment.	Aircraft	3	3
330.	34	13.4	13-131	Locate the component of radio altimeter & Perform self test of radio altimeter.	Aircraft	3	3
331.	34	13.4	13-132	Perform the removal and fitment of RMI	Aircraft	3	3
332.	34	13.4	13-133	Perform the power on test of RMI	Aircraft	3	2
333.	31	13.8	13-134	Perform stall warning functional check.	Aircraft	3	3
334.	31	13.8	13-135	Perform stick shaker motor removal and fitment	Aircraft	3	3
335.	31	13.8	13-136	Perform the removal and fitment of Directional gyro LRU	Aircraft	3	3
336.	31	13.8	13-137	Perform the removal and fitment of Flux valve	Aircraft	3	3
337.	31	13.8	13-138	Perform the removal and fitment of Vertical gyro and rate gyro LRU.	Aircraft	3	3
338.	31	13.8	13-139	Perform the Removal and Fitment of HIS, ADI & Perform the removal and fitment of Flight Director computer, Instruments amplifier.	Aircraft	3	3
339.	31	13.8	13-140	Perform the removal and fitment of FDS control panel	Aircraft	3	3
340.	22	13.3	13-141	Show the autopilot component in lea jet 24 d aircraft and associated with removal and fitment of autopilot control panel.	Aircraft	3	3
341.	22	13.3	13-142	Associated with removal and fitment of	Aircraft	3	3

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)



# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

				autopilot electrical box.			
342.	22	13.3	13-143	Associated with removal and fitment of autopilot Computer	Aircraft	3	3
343.	22	13.3	13-144	Associated with Pitch Servo Electrical Box removal and fitment	Aircraft	3	3
344.	22	13.3	13-145	Associated with Roll Servo removal and fitment	Aircraft	3	3
345.	22	13.3	13-146	Associated with Pitch Servo removal and fitment	Aircraft	3	3
346.	22	13.3	13-147	Associated with Yaw/Yaw damper Servo removal and fitment	Aircraft	3	3
347.	22	13.3	13-148	Associated with Autopilot engaging and disengaging.	Aircraft	3	3
TOTAL IN-HOUSE PRACTICAL HOURS							315
<b>MODULE-14 (PROPULSION)-PRACTICAL</b>							
348.	71	14.1	14-01	Associated with Removal and fitment of engine cowling of aircraft	AIRCRAF T	2	2
349.	71	14.1	14-02	Locate the Engines components of CJ 610-4 Engine and perform the visual inspection for security of mounting and general condition.	AIRCRAF T	2	3
350.	77	14.2	14-03	Perform the removal and fitment of engine Tach generator, RPM indicator.	AIRCRAF T	2	2
351.	77	14.2	14-04	Perform the removal and fitment of EPR transducer; Indicator & drain for moisture.	AIRCRAF T	2	2
352.	77	14.2	14-05	Perform the Removal and fitment of Thermocouple Spool Assembly& perform the resistance check.	AIRCRAF T	2	2
353.	77	14.2	14-06	Perform the Removal and fitment of Thermocouple harness.	AIRCRAF T	2	2
354.	79	14.2	14-07	Perform the removal & fitment of Oil Pressure Transmitter.	AIRCRAF T	2	2
355.	79	14.2	14-08	Perform the removal & fitment of oil pressure switch and Indicator.	AIRCRAF T	2	2
356.	79	14.2	14-09	Perform the removal & fitment of Oil Temperature Indicator and oil temperature bulb.	AIRCRAF T	2	2

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)





# ACADEMY OF AVIATION & ENGINEERING

38-39, Prestige Enclave, Kempegowda International Airport Road,  
Bettahalsur Cross, B.B. Road, NH-44, Bengaluru, Karnataka-562157  
Ph: 09589251303, Email:tmaeblr.shashib@gmail.com, Web: www.aeblr.com

## MAINTENANCE TRAINING ORGANISATION EXPOSITION PART 4: APPENDICES

DOC NO:	AAE/BMTO/MTOE/01	
ISSUE NUMBER	02	January
REVISION NUMBER & DATE	00	2023

357.	73	14.2	14-10	Perform the removal & fitment Fuel Flow Transmitter.	AIRCRAFT	2	2
358.	73	14.2	14-11	Perform the removal & fitment Fuel Flow Indicator.	AIRCRAFT	2	2
359.	73	14-2	14-12	Perform the removal & fitment Fuel control box.	AIRCRAFT	2	2
TOTAL IN-HOUSE PRACTICAL HOURS							25

  
SIGNATURE OF TRAINING MANAGER

MAINTENANCE TRAINING ORGANISATION EXPOSITION (MTOE)  
(Organization Seal)